

**Canon**

# iR3300/iR2800/iR2200 Series

## PS/PCL Printer Guide



Please read this guide before operating this equipment.  
After you finish reading this guide, store it in a safe place for future reference.

**ENG**



# About the Manuals for the Machine

The manuals for this machine are divided as follows. Please read them to suit your needs.

For Basic Use .....	▶	Reference Guide
Troubleshooting .....	▶	
For Basic Copying .....	▶	Copying Guide
For Convenient Copying .....	▶	
For Basic Mail Box Function Use .....	▶	Mail Box Function Guide
For Convenient Mail Box Function Use .....	▶	
For Remote UI Use .....	▶	Remote UI Guide
For Setting Up the Network Connection & Installing the CD-ROM Software .....	▶	Setup Guide
For Printer Use.....	▶	PS/PCL Printer Guide (This Document)
For Installing Printer Driver, etc. .....	▶	PCL Driver Guide PS Driver Guide
For Connecting and Setting the Network.....	▶	Network Guide



The manuals supplied with optional equipment are included in the list above.

Depending on the system configuration and product purchased, some manuals may be unavailable (irrelevant).



# How This Manual Is Organized

<b>Chap 1</b>	<b>Before You Start Using the Machine</b>	Please read this chapter first	<b>1</b>
<b>Chap 2</b>	<b>Menu Functions and Operation</b>		<b>2</b>
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Contains the Index and Appendix.

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- Considerable effort has been made to make sure that this manual is free of inaccuracies and omissions.
- However, as we are constantly improving our products if you need an exact specification, please contact Canon.

# PREFACE

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Thank you for purchasing the Canon Network Multi-PDL Printer Kit-C1/C2. This manual describes the additional functionality this kit provides for an iR3300/2800/2200 Series machine, and how to specify these functions from the touch panel display.

Please read this manual thoroughly before using the Network Multi-PDL Printer Kit-C1/C2 with an iR3300/2800/2200 Series machine in order to familiarise yourself with the added capabilities, and to make the most of the functions. After reading this manual store it in a safe place for future reference.

**CAUTION:**

In this manual, CAUTION MESSAGES with this  symbol indicate that neglecting the suggested procedure or practice could result in personal injury.

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## About Abbreviations

In this manual, Microsoft® Windows® and PostScript 3 emulation are referred to as Windows and PS, respectively.

# Safety Information

## 1. Laser Safety

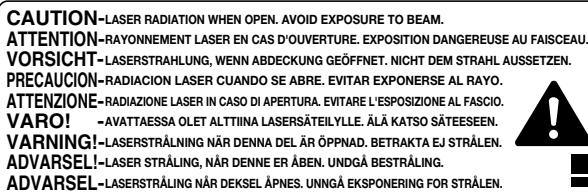
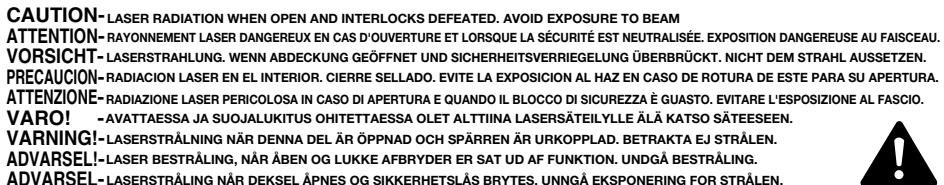
This Product is certified as a Class 1 laser product under EN60825-1:1994. This means that the product does not produce hazardous laser radiation.

Since radiation emitted inside the product is completely confined within protective housings and external covers, the laser beam can not escape from the machine during any phase of user operation.

## 2. Additional Information

When servicing or adjusting the optical system of the product, be careful not to place screwdrivers or other shiny objects in the path of the laser beam. Also, accessories such as watches and rings should be removed before working on the product. The reflected beam, even though visible or invisible, can permanently damage your eyes.

The following label is attached to the main unit where there is danger of exposure to laser radiation:



This Copier has been classified under EN60825-1:1994 and conforms to the following classes;

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**LASER KLASSE 1**

**APPAREIL A RAYONNEMENT LASER DE CLASSE 1**

**APPARECCHIO LASER DI CLASSE 1**

**PRODUCTO LASER DE CLASE 1**

**APARELHO A LASER DE CLASSE**

## **⚠ CAUTION**

- Use of controls, adjustments or performance of procedures other than those specified in the manual may result in hazardous radiation exposure.

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# How to Use This Manual

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## Symbols Used in This Manual

The following symbols are used in this manual, for explanations of procedures and restrictions, handling cautions, and instructions that should be observed for safety.

-  **WARNING** Indicates a warning concerning operations that may lead to death or injury to persons if not performed correctly. In order to use the machine safely, always pay attention to these warnings.
-  **CAUTION** Indicates a caution concerning operations that may lead to injury to persons or damage to property if not performed correctly. In order to use the machine safely, always pay attention to these cautions.
-  **IMPORTANT** Indicates operational warnings and restrictions. Be certain to read these items to operate the machine correctly, and to avoid damage to the machine.
-  **NOTE** Indicates notes for operation or additional explanations. Reading these is highly recommended.

## Keys Used in This Manual

The following symbols and key names are used in this manual:

- Control panel keys.....◎ (Start)
- Touch panel display keys.....[OK]

# Displays Used in This Manual

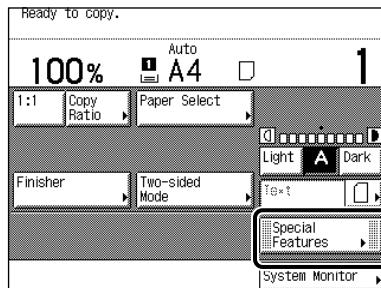
Screenshots of the touch panel display used in this manual are those taken when the Finisher-J1, Cassette Feeding Unit-W1, Feeder (DADF-H1), Printer Kit, and Network Interface Adapter are attached to the iR3300. Note that functions that cannot be used depending on the model or options, are not displayed on the touch panel display.

The keys which you should press are marked with  , as shown below.

When multiple keys can be pressed on the touch panel display, all keys are marked. Select the keys which suit your needs.

1

Place the original, then press [Special Features].



Press this key for operation.

# Illustrations Used in This Manual

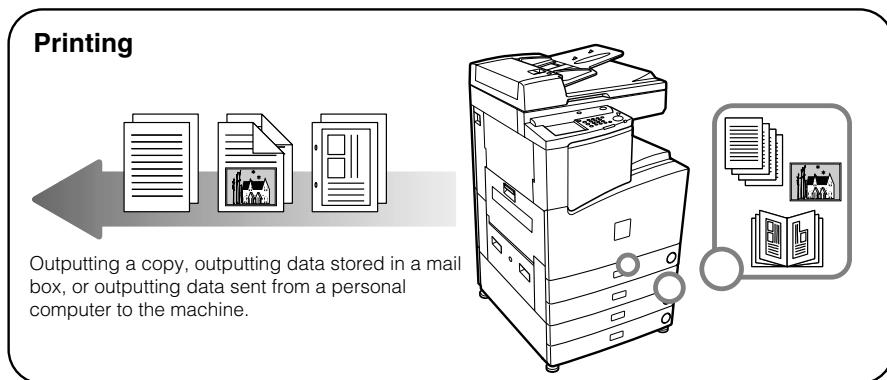
Unless otherwise noted, illustrations used in this manual are those taken when the Finisher-J1 and Cassette Feeding Unit-W1 are attached to the iR3300.

# Operation of the Machine and Terms Used in This Manual

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This machine makes effective use of memory in order to perform print operations efficiently. For example, as soon as the machine has scanned the original that you want to copy, it can immediately scan the next person's original. You can also print from this machine, using a function other than the Copy function. In this machine, these operations take place in a complex way, so that not only copies, but also various kinds of prints may sometimes have to wait their turn before they can be output.

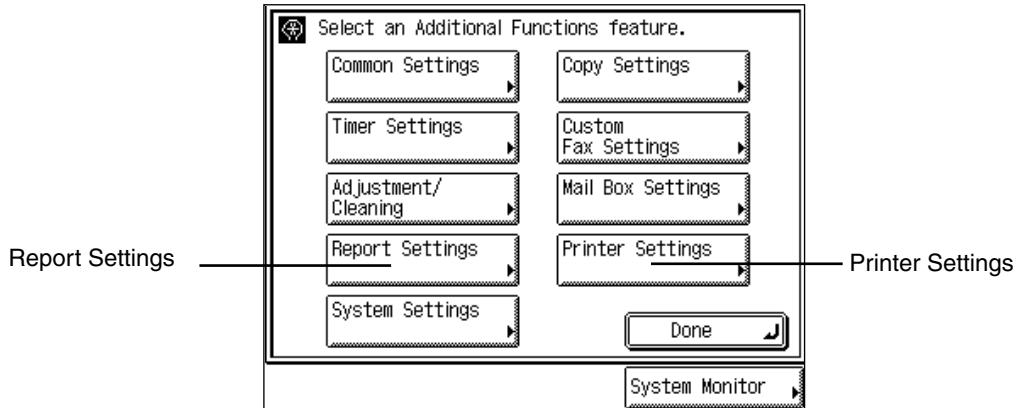
To avoid confusion when reading this manual, the term "printing" used throughout this manual is defined as set out below. The scanning of an original when making a copy, and the process of making a print, are described separately.



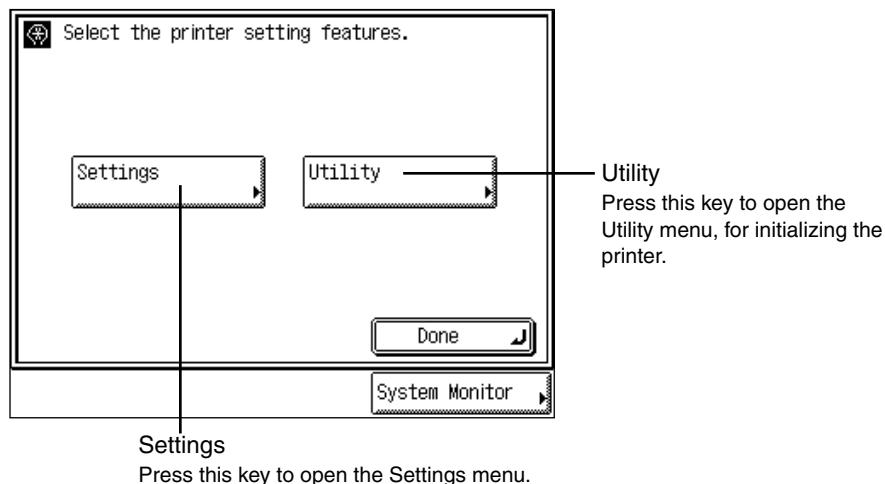
# What the Machine Can Do

## Additional Functions Screen

Press  to open the Additional Functions screen. The Printer Settings or the Report Settings can be accessed from this screen.



In the Additional Functions screen, press [Printer Settings] to open the Custom Priting Settings menu.





# 1

## CHAPTER

# Before You Start Using the Machine

This chapter describes how to set up the printing environment from the touch panel display.

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Menu Functions .....	1-2
What Are Menu Functions? .....	1-2
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# Menu Functions

This chapter describes the menu functions and how to access them with the touch panel display.

## What Are Menu Functions?

The machine lets you specify the number of copies, the paper size, etc., to use when it receives a print job. Normally, however, these types of settings are specified by the application sending the print job, or by the printer driver.

However, you can specify many other settings other than the number of copies, the paper size, etc., which affect the printer function of the machine. These include some settings that cannot be specified from an application or the printer driver. These settings are referred to as "Menu Functions."

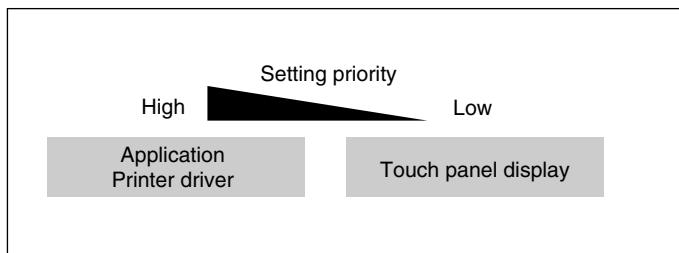
The menu functions are set using the keys on the touch panel display and are grouped together depending on the type of settings performed. This makes them easy to set.

### NOTE

- The contents of the Printer Settings are stored in the nonvolatile memory of the machine. This means that the settings are stored even if the power to the machine is switched off - the settings will still be available when the power is switched on again.

## ***Understanding the Printer Settings Priorities***

When the same menu function setting can be specified by using the keys on the machine, or by specifying the setting in an application or the printer driver, the setting from the application or printer driver has priority. These settings will override the settings made on the machine.



- The Windows printer driver is included on the CD-ROM provided with the machine. For instructions on installing the printer driver, see the *Setup Guide*.

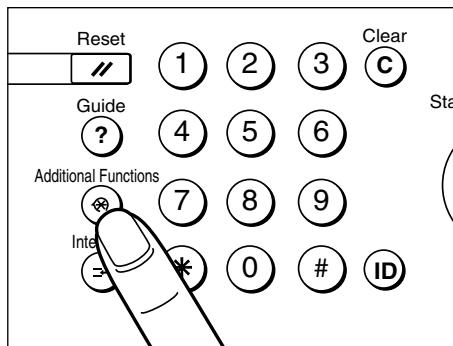
# Accessing the Menus

To access the printer related menu functions, display the Printer Settings screen on the touch panel display and use the keys on the display to specify the settings.

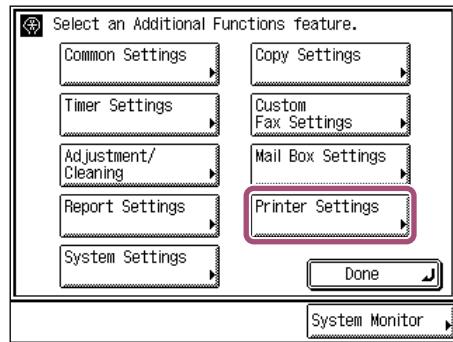
## **IMPORTANT**

- You can access menus and modify settings while print jobs are waiting in the queue. However, any new settings will only affect print jobs sent to the queue after making the modifications.

## **1** Press



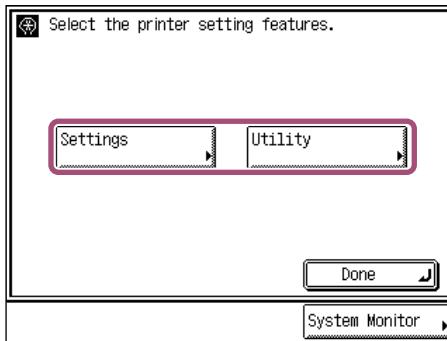
## **2** Press [Printer Settings].



### 3 Press [Settings] or [Utility] to access the corresponding menu.

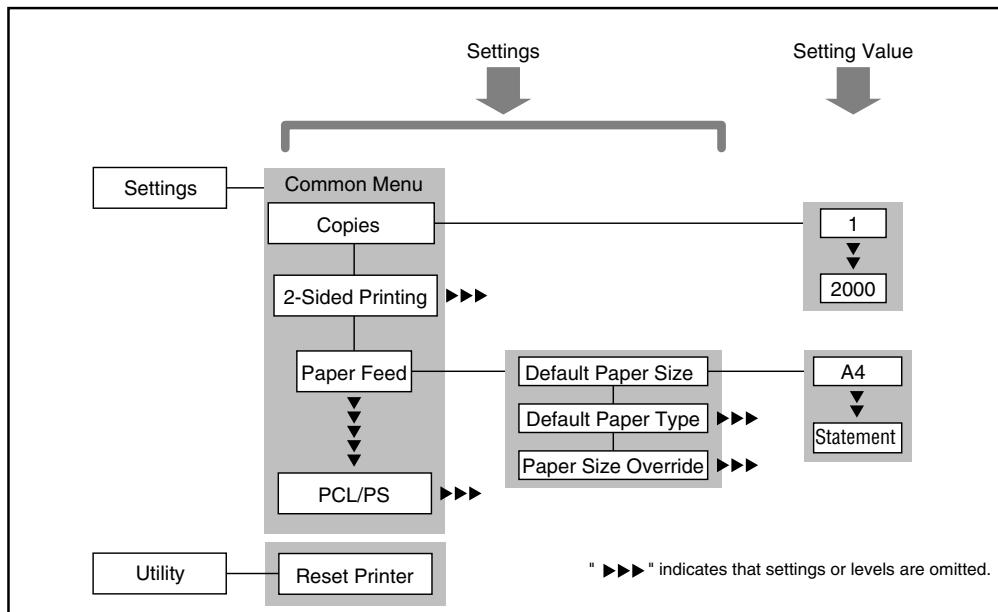
The Settings menu provides access to common settings, such as number of copies, error handling, and toner density.

The Utility menu provides access to the reset printer function.



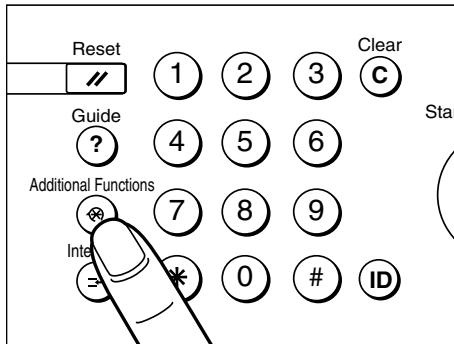
# Using the Printer Settings Menu

The Printer Settings Menu enables you to access common features. Below is an abbreviated outline of the Printer Settings Menu structure. For a detailed description of all Printer Settings Menu options, see “Printer Settings Menu Functions and Operation,” on p. 3-1 through p. 3-23.

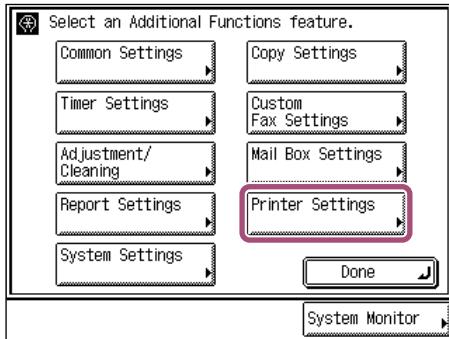


As an example, the following is the sequence of steps for setting the number of copies.

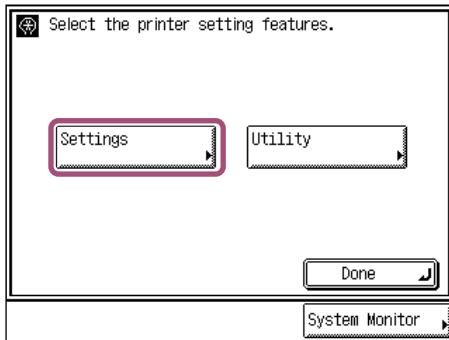
**1** Press .



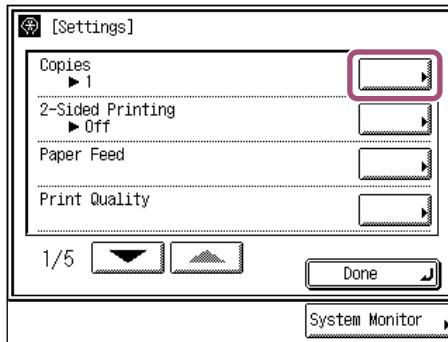
**2** Press [Printer Settings].



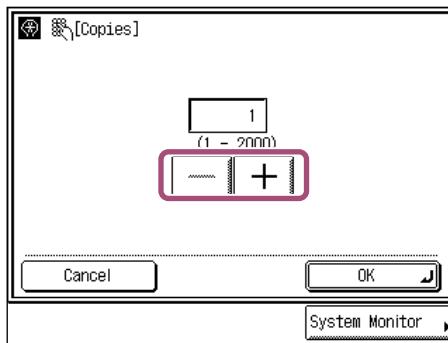
**3** Press [Settings].



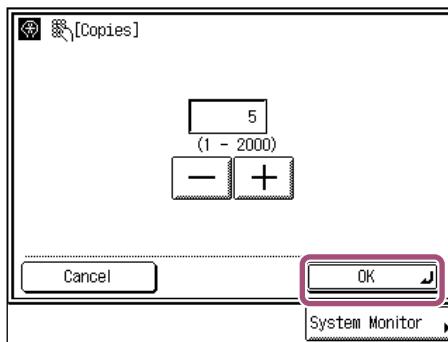
**4** Press [Copies].



**5** Enter the number of copies using the numeric keys or [-] and [+].

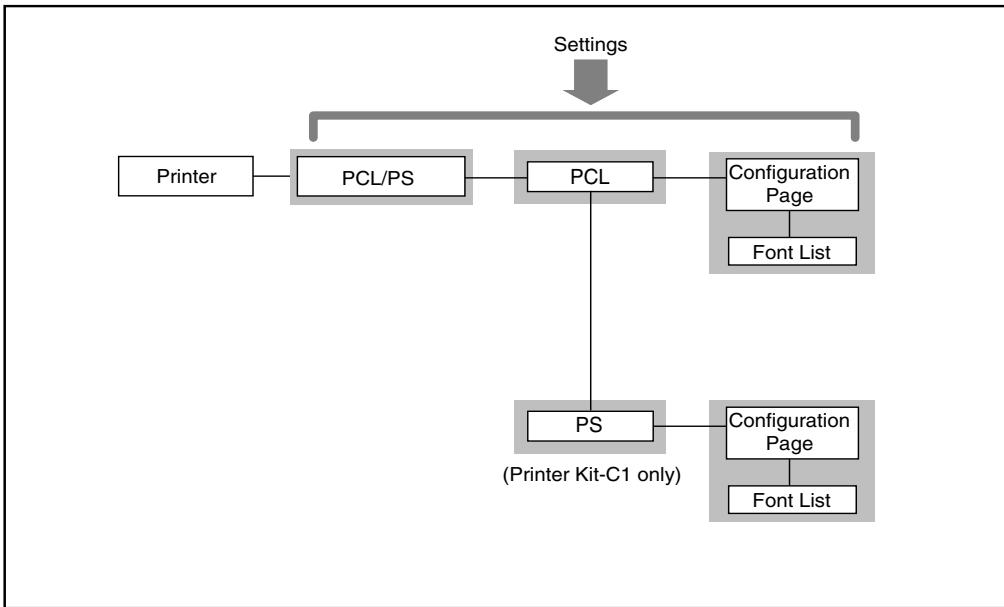


**6** Confirm the setting, then press [OK].



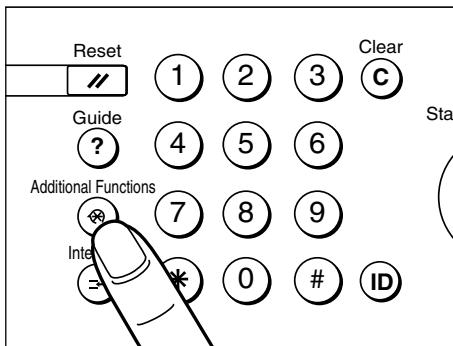
# Using the Report Settings Menu

The Report Settings Menu enables you to access report print features such as checking the configuration. Below is an abbreviated outline of the Report Settings Menu structure. For a detailed description of Report Settings Menu options, see “Report Settings Menu,” on p. 4-1.

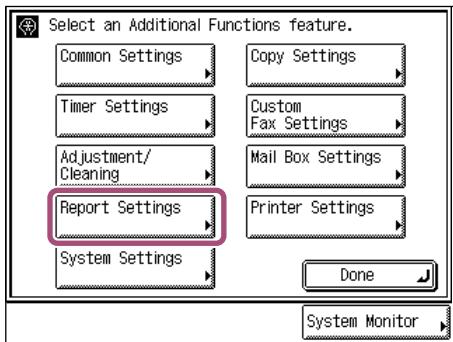


As an example, the following is the sequence of steps for printing a Configuration Page.

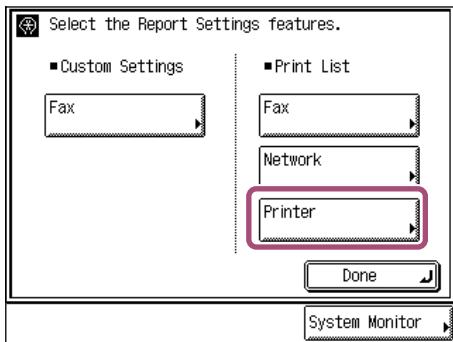
**1** Press .



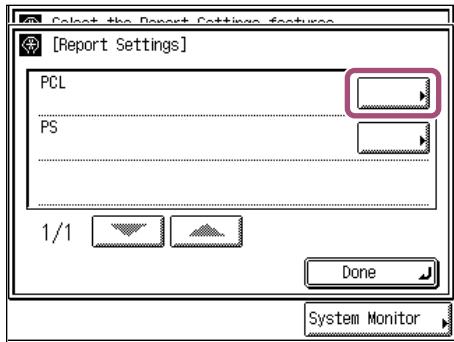
**2** Press [Report Settings].



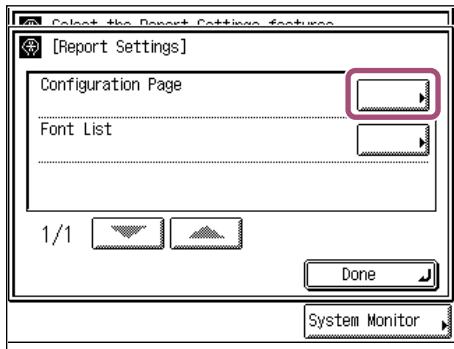
**3** Press [Printer].



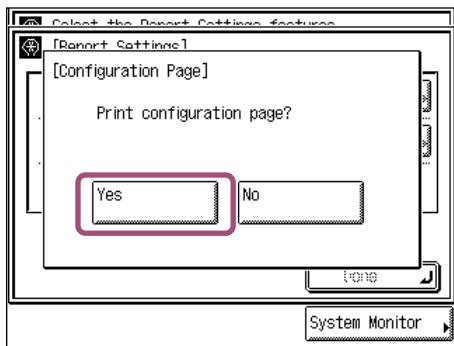
**4** Press [PCL].



**5** Press [Configuration Page].



**6** Press [Yes] to print the page.



## Configuration Page Sample

If the printer function is working correctly, the Configuration Page will be similar to the sample below.

### PCL Configuration Page

<b>Canon Configuration Page</b>		iR2200-3300	
<b>Hardware Configuration</b>			
Product Name	: iR3300	RAM Size	: 128 MB
Serial No	: 3HEW0101	ROM Size	: None
Date	: 29/03/2001 11:23	HDD	: 5.6 GB
Language	: English	PCI Device	: RIPI Version 1 (slot 1)
Main Board Version	: 3	Options	: Cassette Feeding Unit
Controller Version	: 505.15.145		: Saddle Finisher-G1
Scanner Version	: 115.201		: Puncher Unit
Finisher Version	: 105		
<b>Common Settings</b>			<b>Print Quality</b>
Copies	: 1	Image Refinement	: On
2-Sided Printing	: Off	Density	: 5
Paper Save	: On	Toner Save	: Off
Auto Fit	: Off		
Job Securing Time	: 1 hour	<b>Layout</b>	
Timeout	: 15 s	Binding	: Long Edge
Print After Completing RIP	: Off	Margin	: 0.0 mm
Finishing	: None	Offset X	: 0.0 mm
Punch	: None	Offset Y	: 0.0 mm
Booklet			
Saddle Stitch	: On		
Transparency Interleaving	: None		
Personality	: Auto		
<b>Paper Feed</b>			
Default Paper Size	: A4		
Default Paper Type	: Plain Paper		
Paper Size Override	: Off		
<b>PCL</b>			
<b>PCL Settings</b>			
PCL Version	: 30.06		
Font Version	: 19991102-4.0		
Orientations	: Portrait		
Font Number	: 0		
Point Size	: 12.00 point		
Pitch	: 10.00 cpi		
Form Lines	: 64 lines		
Symbol Set	: PC8		
Custom Paper	: Off		
Append CR to LF	: No		
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### PS Configuration Page (Printer Kit-C1 Only)

<b>Configuration Page</b>		iR2200-3300	
<b>Hardware Configuration</b>			
Product Name	: iR3300	RAM Size	: 128 MB
Serial No	: 3HEW0101	ROM Size	: None
Date	: 29/03/2001 11:23	HDD	: 5.6 GB
Language	: English	PCI Device	: RIPI Version 1 (slot 1)
Main Board Version	: 3	Options	: Cassette Feeding Unit
Controller Version	: 505.15.145		: Saddle Finisher-G1
Scanner Version	: 115.201		: Puncher Unit
Finisher Version	: 105		
<b>Print Quality</b>			<b>Print Quality</b>
Image Refinement	: On	Image Refinement	: On
Density	: 5	Density	: 5
Toner Save	: Off	Toner Save	: Off
<b>Layout</b>			<b>Layout</b>
Binding	: Long Edge	Binding	: Long Edge
Margin	: 0.0 mm	Margin	: 0.0 mm
Offset X	: 0.0 mm	Offset X	: 0.0 mm
Offset Y	: 0.0 mm	Offset Y	: 0.0 mm
<b>PS</b>			<b>PS</b>
PS Version			: IR3300
PS Version	: 3010.103	Job Timeout	: 10 s
PS Version	: 3010.103	Wait Timeout	: 300 s
PS Version	: 3010.103	Print PS Errors	: Off
Canon and the Canon logo are trademarks of Canon Inc. PostScript is a trademark of Adobe Systems Incorporated. PostScript 3 emulation is referred to as PS throughout this page and panel menu.			



# 2

CHAPTER

## Menu Functions and Operation

This chapter describes outline of all functions and settings.

---

Printer Settings Menu Functions .....	2-2
Report Settings Menu Functions .....	2-5

# Printer Settings Menu Functions

The following table lists all settings of the Printer Settings Menu.



- The bold values indicate the default settings.

Setting	Available Options	Description
<b>Settings Menu (See p.3-3)</b>		
Copies	<b>1</b> - 2000	Sets the number of copies to be printed.
2-Sided Printing	<b>On</b> , Off	Turns double-sided printing on or off.
Paper Feed		
Default Paper Size	Letter, Legal, <b>A4</b> , A3, A5, 11x17, Executive, Statement, Monarch, Com10, DL, ISO-B5, ISO-C5	Sets the default paper size to be used when printing from the machine.
Default Paper Type	<b>Plain Paper</b> , Transparency, Heavy Paper, Recycled, Color, Letterhead, Tracing Paper, Labels, Bond Paper, Envelope	Sets the default paper type to be used for printing.
Paper Size Override	<b>On</b> , Off	Turns Paper Size Override on or off.
Print Quality		
Image Refinement	<b>On</b> , Off	Turns Image Refinement on or off.
Density	<b>1</b> -5-9	Enables you to set the print density.
Toner Save	<b>On</b> , Off	Turns Toner Save on or off.
Layout		
Binding	<b>Long Edge</b> , Short Edge	Sets long edge or short edge binding for print jobs.
Margin	<b>-30.0</b> - <b>0.0</b> - <b>+30.0</b> mm	Sets the margin in millimeters.
Offset X	<b>-50.0</b> - <b>0.0</b> - <b>+50.0</b> mm	Sets the X Offset.
Offset Y	<b>-50.0</b> - <b>0.0</b> - <b>+50.0</b> mm	Sets the Y Offset.

Setting	Available Options	Description
Auto Continue	On, Off	Turns the Auto Continue function on or off. When Auto Continue is enabled, the machine automatically continues if an error skip error occurs.
Job Securing Time	1 hour, 2 hours, 3 hours, 6 hours, 12 hours, 24 hours	Determines how long a secured job remains in the queue before being cancelled.
Timeout	Timeout (5 - 15 - 300 s), Off	Determines the timeout interval in seconds.
Print After Completing RIP	On, Off	Selects whether to print the first page after all the pages in job have been rasterized.
Finisher	None, Rotate Collating, Rotate Grouping, Offset Collating, Offset Grouping, Staple Sort Staple position: Corner (Upper-L), Double (Top), Corner (Upper-R), Double (Right), Corner (Lower-R), Double (Bottom), Corner (Lower-L), Double (Left)	Selects the finisher or shift tray, if installed, and selects the setting for collating and staple sort.
Punch	None, Top, Bottom, Left, Right	Sets the punch settings for the puncher unit, if installed.
Booklet	On, Off	Turns booklet binding on or off.
Saddle Stitch	On, Off	Turns saddle stitching on or off.
Transparency Interleaving	None, Blank, Printed	Enables you to determine the settings for Transparency Interleaving.
Personality	Auto, PS, PCL	Enables you to determine the Personality setting.
Initialize		Enables you to initialize the settings.

#### PCL/PS Settings (See p.3-20)

PCL	
Orientation	Portrait, Landscape
Font Number	0 - 120
Point Size	4.00 - 12.00 - 999.75 point
Pitch	0.44 - 10.00 - 99.99 cpi
Form Lines	5 - 64 - 128 lines

Setting	Available Options	Description
Symbol Set	DESKTOP, ISO4, ISO6, ISO11, ISO15, ISO17, ISO21, ISO60, ISO69, ISOL1, ISOL2, ISOL5, ISOL6, LEGAL, MATH8, MCTEXT, MSPUBL, PC775, <b>PC8</b> , PC850, PC852, PC8DN, PC8TK, PC1004, PIFONT, PSMATH, PSTEXT, ROMAN8, VNINTL, VNMMATH, VNUS, WIN30, WINBALT, WINL1, WINL2, WINL5	Sets the symbol set.
Custom Paper	<b>On</b> , <b>Off</b>	Toggles custom paper on or off.
Unit of Measure	<b>Millimeters</b> , Inches	Sets the unit of measurement for specifying the custom paper size. *This setting is only displayed if Custom Paper is set to on.
X Dimension	138 - <b>432</b> mm	Sets the X dimension of the custom paper. *This setting is only displayed if Custom Paper is set to on.
Y Dimension	100 - <b>297</b> mm	Sets the Y dimension of the custom paper. *This setting is only displayed if Custom Paper is set to on.
Append CR to LF	<b>Yes</b> , <b>No</b>	Append a carriage return to each line feed encountered.
<b>PS (Print Kit-C1 Only)</b>		
Job Timeout	<b>0</b> - 3600 s	Sets the timeout setting in seconds.
Wait Timeout	0 - <b>300</b> - 3600 s	Determines how long a job waits, in seconds, before it times out.
Print PS Errors	<b>On</b> , <b>Off</b>	Turns printing of PS errors on or off.

**Utility Menu (See p.3-23)**

Reset Printer	Enables you to reset the printer function and cancel jobs in the print queue or in the machine's memory.
---------------	--



# Report Settings Menu Functions

---

The following table lists functions of the Report Settings Menu.

Setting	Description
Printer Menu (See p.4-1)	
PCL	
Configuration Page	Enables you to print the PCL Configuration Page.
Font List	Enables you to print the PCL Font List.
PS (Printer Kit-C1 Only)	
Configuration Page	Enables you to print the PS Configuration Page.
Font List	Enables you to print the PS Font List.



# Printer Settings Menu Functions and Operation

# 3

## CHAPTER

This chapter describes how to use the Printer Settings Menu and its submenus.

---

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# Settings Menu

## NOTE

- The bold values indicate the default settings.

---

Copies	<b>1-2000</b>
--------	---------------

Enables you to specify the number of copies printed. The default setting is 1, but you can specify up to 2000 copies.

---

2-Sided Printing	<b>On, Off</b>
------------------	----------------

This parameter selects one-sided or two-sided printing. When 2-Sided Printing is specified, the document is printed on both sides of the paper.



## IMPORTANT

- Two-sided printing can use either the paper drawer or the stack bypass tray, in sizes of A3, B4, A4, A4R, JIS-B5, B5R, A5R, 11x17, Legal, Letter, Letter-R, Statement-R and Executive.
- When printing on letterhead paper, or paper with a logo etc., such as a cover sheet, please note the following points.
  - If the paper is fed from an internal paper drawer, the print surface of the first page should be face-down.
  - If the paper is fed from the stack bypass or the optional paper deck, the print surface of the first page should be face-up.

---

## Paper Feed

---

**Default Paper Size** Letter, Legal, A4, A3, A5, 11x17, Executive, Statement, Monarch, COM10, DL, ISO-B5, ISO-C5

---

This parameter defines the default paper size used when the paper size cannot be set within the application software, when no paper source is specified.



### IMPORTANT

- If you are printing from an OS that does not have a printer driver for the machine (MS-DOS, UNIX, etc.) make sure that the paper loaded in the paper drawer matches the paper size specified in this setting. If the paper size specified in this setting is not available, an error message will be displayed when the machine tries to print the job and the machine will stop. In addition, if a paper source has not been selected through the application, the machine will automatically select default print settings for the paper size and type. See “Setting a Paper Drawer for Auto Paper Selection/Auto Drawer Switching,” in the *Reference Guide*.



### NOTE

- To avoid the possibility of your job being printed on the wrong size paper, always make sure that Executive-size paper is loaded in the Stack Bypass before printing an Executive-size job. When the Manual Paper Select screen is displayed, press [Free Size].

---

**Default Paper Type**

**Plain Paper, Transparency, Heavy Paper, Recycled, Color, Letterhead, Tracing Paper, Labels, Bond Paper, Envelope**

---

This parameter sets the default paper type to be used for print job. This printer has internally defined optimal print modes for each specified paper type.



**IMPORTANT**

- If you are printing from an OS that does not have a printer driver for the machine (MS-DOS, UNIX, etc.) make sure that the paper loaded in the paper drawer matches the paper type specified in this setting. If the paper type specified in this setting is not available, an error message will be displayed when the machine tries to print the job and the machine will stop. In addition, if a paper source has not been selected through the application, the machine will automatically select default print settings for the paper type and size. See "Setting a Paper Drawer for Auto Paper Selection/Auto Drawer Switching," in the *Reference Guide*.



**NOTE**

- Use the following figures as a guideline to decide whether paper should be specified as Plain Paper or Heavy Paper.
  - Plain Paper: 64 gsm - 90 gsm ( $64 \text{ g/m}^2$  -  $90 \text{ g/m}^2$ )
  - Heavy Paper: Paper heavier than Plain Paper - 128 gsm ( $128 \text{ g/m}^2$ )
- Canon transparency film is recommended for printing on transparencies.
- Canon label paper is recommended for printing on labels.
- Transparency, Tracing Paper, and Labels cannot be printed using two-sided printing.

---

**Paper Size Override**

**On, Off**

---

When paper of the size that is set in the printer driver has not been loaded in the paper drawer, the paper that is printed will be changed to the following sizes.

Printer driver setting		Paper that will be printed on
A4	→	Letter
Letter	→	A4
A3	→	11x17
11x17	→	A3

If [On] is selected, the paper size will be changed.

If [Off] is selected, the paper supply message will be displayed and the paper size will not be changed.

---

## Print Quality

---

### Image Refinement **On, Off**

---

This setting smoothes the jagged outlines of characters and graphics. If [On] is selected, smoothing is performed before printing. If [Off] is selected, jobs are printed without being smoothed.

 **NOTE**

- The results of image refinement might be different depending on the types of characters and graphics you want to print.

---

### Density **1 - 5 - 9**

---

This setting adjusts the print density. Pressing [Dark] makes the print image darker, pressing [Light] makes the image lighter. You can adjust the setting in 9 levels, with level 5 (middle level) being the factory setting.

### Toner Save **On, Off**

---

This setting determines whether the Toner Save is enabled. Toner Save uses less toner to print documents and may result in longer toner life.

 **NOTE**

- If [On] is selected for Toner Save, very light or finely detailed images may not be printed clearly.

---

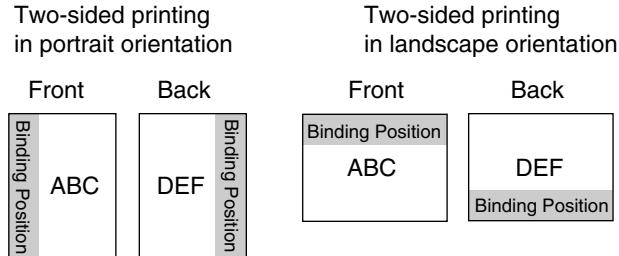
## Layout

### Binding

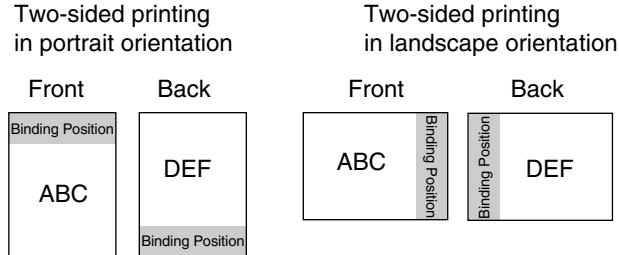
#### Long Edge, Short Edge

This parameter determines whether the binding position is along the long edge or the short edge of the paper. When binding for 2-sided printing, the image orientation is automatically adjusted for correct layout.

When the binding position is on the long edge of the paper:



When the binding position is on the short edge of the paper:



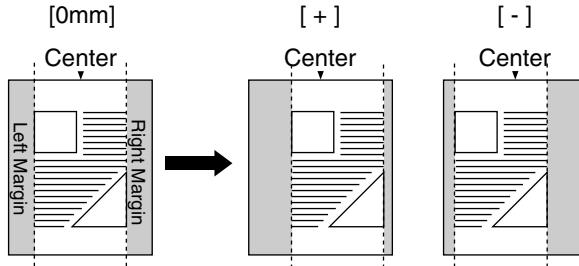
#### NOTE

- You cannot create a binding margin with this setting alone. Use this setting in combination with the Margin setting to create a binding margin.
- For 2-Sided Printing, the orientation of the back image may be changed by this setting.

**Margin****-30.0 - 0.0 - +30.0 mm (in increments of 0.5 mm)**

This setting sets the page margin in mm. The settings can be set between -30.0 mm (-1.20 inch) to +30.0 mm (+1.20 inch) in increments of 0.5 mm (0.01 inch).

Use [▲] to increase the width of the inside margin. Use [▼] to increase the size of the outside margin.



You can specify the edge along which the margin will be created in the Binding setting (previous setting.) To create a margin along one of the edges of the paper, use this setting in combination with the Binding setting.

**IMPORTANT**

- If this setting moves the image outside the printable area, part of the image may be cut off.

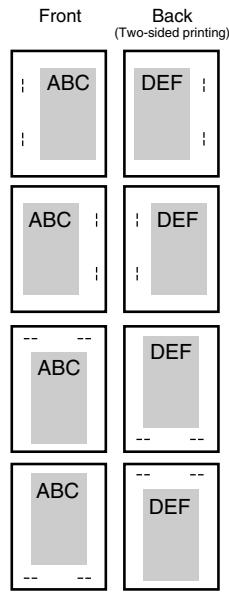
**NOTE**

- If this setting is used in combination with the Offset X/Offset Y setting, the two settings are added together.
- Pressing [▲] increases the setting value by 0.5 mm (0.01 inch) each time the key is pressed. Pressing [▼] decreases the value by 0.5 mm (0.01 inch) each time. Holding down either [▲] or [▼] continuously speeds up the value alteration.

## Binding and Margin Settings

Refer to the figures below to set binding and margins.

Portrait printing  
with margin



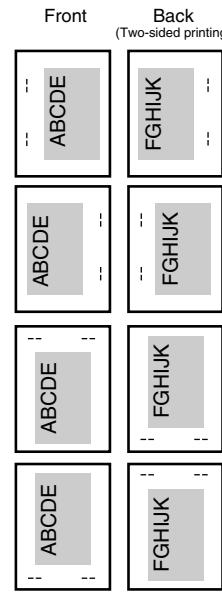
Binding : Long edge  
Margin : [+]

Binding : Long edge  
Margin : [-]

Binding : Short edge  
Margin : [+]

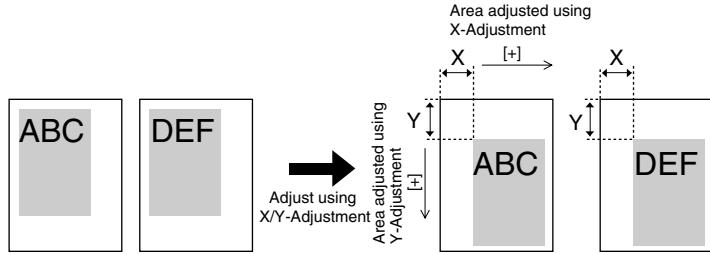
Binding : Short edge  
Margin : [-]

Landscape printing  
with margin



Set the paper orientation in the application you are using.

Offset X	-50.0 - <b>0.0</b> - +50.0 mm (in increments of 0.5 mm)
Offset Y	<p>This setting sets the offset position in mm. The settings can be set between -50.0 mm (-2.00 inch) to +50.0 mm (+2.00 inch) in increments of 0.5 mm (0.01 inch).</p> <p>The print position is adjusted in the vertical or horizontal direction only to the value specified in the setting value.</p> <p>You can increase or decrease the setting in increments of 0.5 mm (0.01 inch) to adjust the print position as described below.</p> <p><b>Offset X:</b> Increasing the setting value moves the image in the X direction on the paper. Decreasing the setting value moves the image in the X direction on the paper.</p> <p><b>Offset Y:</b> Increasing the setting value moves the image in the Y direction on the paper. Decreasing the setting value moves the image in the Y direction on the paper.</p>



### **IMPORTANT**

- Please note that if the print position is adjusted to place print data outside the valid print area, the portion outside the valid print area will not be printed.

### **NOTE**

- Pressing [ $\blacktriangle$ ] increases the setting value by 0.5 mm (0.01 inch) each time the key is pressed. Pressing [ $\blacktriangledown$ ] decreases the value by 0.5 mm (0.01 inch) each time. Holding down either [ $\blacktriangle$ ] or [ $\blacktriangledown$ ] continuously speeds up the value alteration.

---

**Auto Continue****On, Off**

---

You can set whether or not this function is used automatically to temporarily clear an error and continue printing (Error skip) when an error occurs.

When [Off] has been selected, you must use the touch panel display to perform an error skip.

When [On] has been selected, an error skip is performed automatically.

 **NOTE**

- To perform an error skip, press the [Print] key on the System Monitor screen, select the job where the error has occurred, then press [Details] and [Error Skip].
- Error skip only temporarily clears an error, so there is the possibility that the data may not be printed correctly.
- For information on types of errors that can be temporarily cleared with Auto Continue, see "You cannot stop the print job," on p. 5-5.
- When Auto Continue has been set to [On], errors will be automatically skipped (this is valid even if multiple errors have occurred).

---

**Job Securing Time****1 hour, 2 hours, 3 hours, 6 hours, 12 hours, 24 hours**

---

When a secured print job is sent to the machine, it is stored on the machine's hard disk, and a password must be entered before the job can be printed. This setting specifies how long the job will be stored before it is automatically cancelled.

 **NOTE**

- Even if the time period specified with this setting has not elapsed, the print job data will be deleted if the main power to the machine is switched off.
- The password is set from the printer driver.

---

Timeout

## Timeout (5 - 15 - 300 s), Off

When the machine is set to switch between printer modes, the machine detects the control commands and starts printing in the appropriate mode. After all the data has been received and the end of the data is detected, the print mode stops. This processing of print data is called a job.

If the data for a job does not end, the machine will not start the next job even if it receives other print commands. In cases like this, use the Timeout setting to force jobs to finish if no data is received during the set period of time.

When Timeout is On, if print data is still remaining in the machine because of being unable to send a form feed command, the paper can be fed automatically. When the set time is finished, the job will automatically be finished.

When Timeout is Off, jobs will not end automatically.

**IMPORTANT**

- When this function is set so that a job will timeout, the machine may end a print job before all the data has been received if it takes a long time for the PC to send the data. If this occurs, adjust the length of the Timeout setting.
- If [Off] is selected, you will not be able to make copies until print jobs that use the staple sort, punch, and booklet settings have been completed.
- If this setting is set to more than 60 seconds, the machine will cancel a job, due to a timeout, if it does not receive an end-of-job command causing the job not to print correctly.
- This setting specifies the timeout setting for jobs received from the parallel port interface. If [Off] is selected the machine will not be able to receive print jobs from the network until jobs received from the parallel port interface have been completed.

**NOTE**

- When a job is being processed, the Processing/Data lamp on the control panel lights.

---

Print After

## Completing RIP

## On, Off

Sets whether to use the Print after completing RIP function or not.

If Print after completing RIP is selected, the first page is printed after all the pages in the job have been processed.

Although it may take longer to print the first page, the remaining pages in the job will be printed more quickly. This is useful when several people are using the machine since the printing time for a print job is reduced, or when using the other functions, such as the Copy function.

---

Finisher	<b>None</b> , Rotate Collating, Rotate Grouping, Offset Collating, Offset Grouping, Staple Sort
Staple Position	Corner (Upper-L), Double (Top) Corner (Upper-R), Double (Right) Corner (Lower-R), Double (Bottom) Corner (Lower-L), Double (Left)

---

Some of the above options require specific delivery trays and may not be available unless appropriate delivery trays are installed:

	No options	Saddle Finisher-G1	Finisher-J1
Rotate Collating	Yes	Yes	No
Rotate Grouping	Yes	Yes	No
Offset Collating	No	Yes	Yes
Offset Grouping	No	Yes	Yes
Staple Sort	No	Yes	Yes

You can choose from several features when collating printed matter.

**None:** This setting prints all copies of the same page before printing the next page.

**Rotate Collating:** This setting prints all pages of each copy (collating), and rotates every other complete copy 90 degrees to indicate where each copy starts.

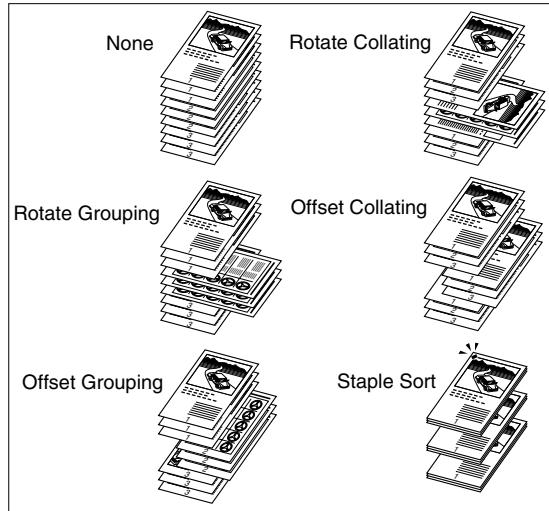
**Rotate Grouping:** This setting prints all copies of the same page before printing the next page. It rotates every other complete set of pages to indicate where each new set starts.

**Offset Collating:** This setting prints all pages of each copy (collating), and offsets every other complete copy to indicate where each copy starts.

**Offset Grouping:** This setting prints all copies of the same page before printing the next page. It offsets every other complete set of pages to indicate where each new set starts.

**Staple Sort:** This setting prints all pages of each copy (collating) and prepares them for stapling according to the option selected for Staple Sort (the following examples).

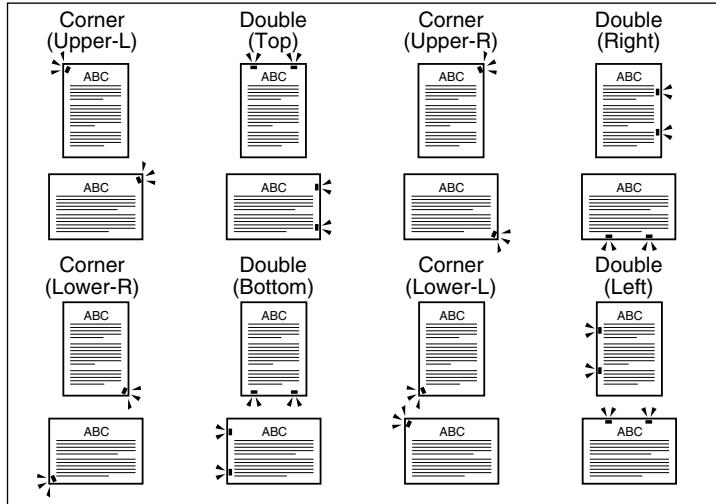
Examples of each Finisher option when printing three copies of a three-page document:



**NOTE**

- Rotate Collating and Rotate Grouping are available for selection if the paper size is A5, A4, JIS-B5, Letter or Statement, and if the printer has paper of the selected size loaded in both orientations (e.g. A4 and A4R or Letter and Letter-R).
- When Rotate Collating or Rotate Grouping is selected, part of the printer image may be cut off when the image is rotated.
- Offset Grouping and Offset Collating are available for selection if the paper size is A3, B4, A4, A4R, JIS-B5, B5R, A5, 11x17, Legal, Letter, Letter-R or Statement.

When you select [Staple Sort], you can select the stapling position.



**NOTE**

- When stapling paper in landscape orientation, the image orientation and the staple position may not match.
- Staple Sort is available for selection if the paper size is A3, B4, A4, A4R, JIS-B5, 11x17, Legal, Letter, Letter-R, Statement or Executive. Available staple locations depend on paper size and image orientation, as shown.

- *Saddle Finisher-G1*

Paper Size	Staple Position	Corner (Upper-L)	Double (Top)	Corner (Upper-R)	Double (Right)	Corner (Lower-R)	Double (Bottom)	Corner (Lower-L)	Double (Left)	Capacity (Sheets)
11x17		Yes	Yes	Yes	No	Yes	Yes	Yes	No	25
Legal		Yes	Yes	Yes	No	Yes	Yes	No	No	25
Letter		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	50
Letter-R		Yes	Yes	Yes*	No	Yes	Yes	Yes*	No	50
Executive		Yes	No	Yes	Yes	Yes	No	Yes	Yes	50
A3		Yes	Yes	Yes	No	Yes	Yes	Yes	No	25
B4		Yes	Yes	Yes	No	Yes	Yes	Yes	No	25
A4		Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	50
A4R		Yes	Yes	Yes*	No	No	Yes	Yes*	No	50
JIS-B5		No	No	Yes	Yes	No	No	Yes	Yes	50

\* Will be stapled parallel to the edge of the paper.

*- Finisher-J1*

Paper Size	Staple Position	Corner (Upper-L)	Corner (Upper-R)	Corner (Lower-R)	Corner (Lower-L)	Capacity (Sheets)
11x17	No	Yes	No	Yes	15	
Legal	No	Yes	No	Yes	20	
Letter	Yes	No	Yes	No	30	
Letter-R	No	Yes*	No	Yes*	30	
Executive	Yes	No	Yes	No	30	
A3	No	Yes	No	Yes	15	
B4	No	Yes	No	Yes	20	
A4	Yes	No	Yes	No	30	
A4R	No	Yes*	No	Yes*	30	
JIS-B5	Yes	No	Yes	No	30	

 NOTE

- The maximum number of sheets that can be stapled is 15 for A3 and 11x17, 20 for B4 and Legal, 30 for A4, A4R, JIS-B5, Letter, Letter-R and Executive. If the number of sheets is greater than this, they will not be stapled.
- Make sure to select compatible settings when using Staple Sort and Punch simultaneously. If conflicting settings are selected, such as the staple setting for the right side of the paper and the punch setting for the left, the printer will use neither Staple Sort nor Punch.

## Punch

**None, Top, Bottom, Left, Right**

This setting enables you to specify the desired paper edge for holes to be punched for binding (two or four holes).

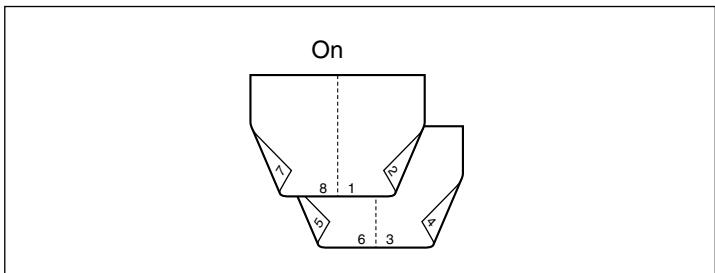
 NOTE

- This function can only be selected if a Saddle Finisher-G1 is installed with a Puncher Unit-G1, a Puncher Unit-J1 or a Puncher Unit-H1.
- Acceptable paper sizes for this option are A3, B4, A4, JIS-B5, 11x17, Legal, Letter or Executive.
- Make sure to select compatible settings when using Staple Sort and Punch simultaneously. If conflicting settings are selected, such as the staple setting for the right side of the paper and the punch setting for the left, the printer will use neither Staple Sort nor Punch.

---

**Booklet****On, Off**

Enables you to prepare the printout for binding as a booklet. Unlike a book, pages in a booklet are bound on the same side. If [On] is selected, the pages are bound on the left side.

 **NOTE**

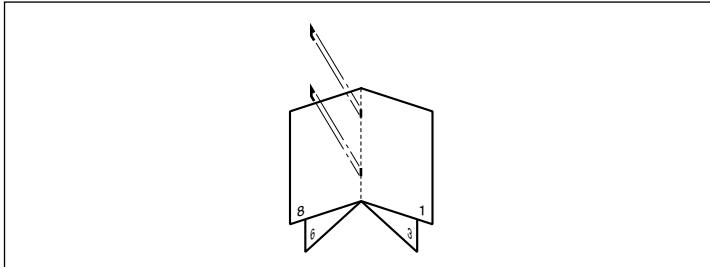
- This function is available for selection if the image page size is B4, A4, A5, Letter-R or Statement. A4 pages are printed on A3 paper, and A5 pages on A4R paper, Letter-R pages on 11x17 paper, and Statement pages on Letter paper.
- If the pages are not all the same size, this function will not work.

---

Saddle StitchOn, Off

---

Saddle Stitch enables the machine to bind a finished print job by stapling and folding the pages of a booklet in the center. The Saddle Stitch function is valid only when booklet print is selected. This can be selected independently from the driver.



## NOTE

- Saddle Stitch can only be performed if the Saddle Finisher-G1 is installed.
- Saddle Stitch is not available if [Off] has been selected for [Booklet].
- If the print job contains only one sheet of paper, the paper will be folded but not stapled.
- The maximum number of sheets that can be saddle stitched is 10. If the number of sheets is greater than this, they will not be saddle stitched.
- The number of copies of a saddle stitched booklet that can be made at one time is limited as shown below:

Number of sheets in each booklet	Max. number of copies that can be printed
1 - 10	10

---

Transparency Inter-leaving

**None, Blank, Printed**

---

When printing on transparencies you can use this setting to output a sheet of paper after each transparency. The paper can be blank, or it can be a paper copy of the transparency.

If [None] is selected, no sheets are interleaved with the transparencies.

If [Blank] is selected, a blank sheet of paper is inserted between each transparency.

If [Printed] is selected, a printed paper from the print job is inserted between each transparency.



**IMPORTANT**

- The transparencies should be fed from the Stack Bypass tray. The paper will be fed from a paper drawer.



**NOTE**

- If [Printed] is selected, the paper printouts are included in the [Copies] count.

---

Personality

**Auto, PS, PCL**

---

This selection enables the machine to process data received from the host computer in the specified data format. Setting the Personality to Auto causes the machine to determine the type of data received from the host on a job-by-job basis. When printing from applications on a computer, we recommend that you use the Auto setting.



**NOTE**

- If you find that the printer does not correctly switch to the appropriate personality when Personality is set to Auto, change the setting manually to match the data you are sending from the host computer.

---

Initialize

---

The menu settings can be reset to the factory defaults by initializing the printer settings.

When you select [Initialize], the confirmation message “Is it OK to initialize the settings?” is displayed. If you select [Yes], the settings are initialized. If you select [No], the settings are not initialized.



**IMPORTANT**

- Do not turn off the printer while the settings are being initialized, as this may damage the machine's memory.

# PCL/PS Settings

This section explains the different menu settings available for PCL and PS, respectively.

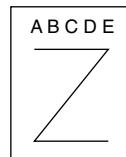
## PCL

### Orientation

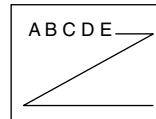
#### Portrait, Landscape

Enables you to set the paper orientation.

If [Portrait] is selected, the print image is printed in portrait orientation regardless of the orientation of the paper in the paper drawers.



If [Landscape] is selected, the print image is printed in landscape orientation regardless of the orientation of the paper in the paper drawers.



### Font Number

#### 0 - 120

You can set the default font typeface for this printer function using the corresponding font numbers. Valid font numbers are from 0 to 120.

### Point Size

#### 4.00 - 12.00 - 999.75 point (in increments of 0.25 point)

When the number selected in Font Number is that of a proportionally spaced scalable font, this option appears in the PCL menu. It enables you to specify a point size for the default font. The point size can be adjusted in increments of 0.25 pts.

### Pitch

#### 0.44 - 10.00 - 99.99 cpi (in increments of 0.01 cpi)

When the number selected in Font Number is that of a fixed pitch scalable font, Pitch appears in the PCL menu. It enables you to specify the pitch for the default font. The pitch can be adjusted in increments of 0.01 cpi.

Form Lines	<b>5 - 64 - 128 lines</b>
	Enables you to specify the number of lines to be printed on a page. You can specify from 5 to 128 lines.
Symbol Set	<b>DESKTOP, ISO4, ISO6, ISO11, ISO15, ISO17, ISO21, ISO60, ISO69, ISOL1, ISOL2, ISOL5, ISOL6, LEGAL, MATH8, MCTEXT, MSPUBL, PC775, PC8, PC850, PC852, PC8DN, PC8TK, PC1004, PIFONT, PSMATH, PSTEXT, ROMAN8, VNINTL, VNMATH, VNUS, WIN30, WINBALT, WINL1, WINL2, WINL5</b>
	Enables you to select the symbol set most suited to the needs of the host computer.
Custom Paper	<b>On, Off</b>
	This setting enables you to specify a custom paper size. When [On] is selected, you can enter a custom size using the following settings.
Unit of Measure	<b>Millimeters, inches</b>
	Enables you to specify the unit of measurement you would like to use to specify your custom paper size.
X Dimension	<b>138 - 432 mm</b>
	Enables you to specify the X dimension of the custom paper. The X dimension can be adjusted in increments of 1 mm. This function can be very useful when part of the printed image is cut off. By increasing the dimension some of the missing text may be correctly printed. Make sure you do not increase the X dimension beyond the actual size of the paper you are using for printing.

 **NOTE**

- This function is not available if the Custom Paper option is set to [Off].

Y Dimension	100 - 297 mm
	<p>Enables you to specify the Y dimension of the custom paper. The Y dimension can be adjusted in increments of 1 mm.</p> <p>This function can be very useful when part of the printed image is cut off. By increasing the dimension some of the missing text may be correctly printed. Make sure you do not increase the X dimension beyond the actual size of the paper you are using for printing.</p>
	<p> <b>NOTE</b></p> <ul style="list-style-type: none"><li>• This function is not available if the Custom Paper option is set to Off.</li></ul>
<hr/>	
Append CR to LF	Yes, No
	<p>This option allows the user to append the required carriage return to each line feed.</p> <p>Select Yes to append a carriage return to each line feed encountered in backward-compatible PCL jobs (pure text, no job control).</p>
<hr/>	
PS (Printer Kit-C1 Only)	
Job Timeout	0 - 3600 s
	<p>Enables you to specify the amount of time before a job times out. If data has not finished within the set time limit, the job automatically cancels.</p>
Wait Timeout	0 - 300 - 3600 s
	<p>Enables you to specify the amount of time a job will wait for data before it times out. If data is not received within the set time limit, the job automatically cancels.</p>
Print PS Errors	On, Off
	<p>This setting determines whether an error page is printed when an error is encountered.</p>

# Utility Menu

This section explains the Utility Menu function.

## Reset Printer

If, for whatever reason, you want to clear all print jobs in progress as well as data that has been received in the memory, you must reset the printer function. Resetting deletes print jobs in the machine's memory and print data that have been received by all interfaces.

### NOTE

- If the machine is being used on a network, please note that resetting the printer function may affect data being received from other users.
- When you reset the printer function, data for print jobs that have already been received, or are received while the printer function is being reset, may be deleted. However, in some cases the data is not deleted from the machine's memory. Even if the data has not been deleted, the print job may not print correctly. Canon recommends that you delete the data and print the job again.



# 4

## CHAPTER

# Report Settings Menu

This chapter describes how to use the Report Settings Menu to check the configuration of the print function or print a font list.

---

PCL Menu .....	4-2
PS Menu (Printer Kit-C1 Only) .....	4-3

# PCL Menu

---

4

This section explains the report functions available for PCL.

---

## Configuration

### Page

Details of RAM capacity, settings in the printer's menus, etc. are printed. When you select Configuration Page, the confirmation message "Print configuration page?" is displayed. If you select [Yes], the configuration page will be printed, and if you select [No], it will not be printed.

---

## Font List

ID numbers, names and samples of fonts held by the printer will be printed. When you select Font List, the confirmation message "Print font list?" is displayed. If you select [Yes], the font list will be printed, and if you select [No], it will not be printed.

# PS Menu (Printer Kit-C1 Only)

This section explains the report functions available for PS.

---

## Configuration Page

Details of RAM capacity, settings in the printer's menus, etc. are printed. When you select Configuration Page, the confirmation message "Print configuration page?" is displayed. If you select [Yes], the configuration page will be printed, and if you select [No], it will not be printed.

---

## Font List

ID numbers, names and samples of fonts held by the printer will be printed. When you select Font List, the confirmation message "Print font list?" is displayed. If you select [Yes], the font list will be printed, and if you select [No], it will not be printed.



# Troubleshooting

# 5

## CHAPTER

This chapter explains how to solve printing problems and the steps to take if printing fails.

---

Responding to Error Messages .....	5-2
Resetting the Machine After a Service Call Message .....	5-2
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# Responding to Error Messages

When the status indicator is orange, printing is not possible. If this happens during printing, the print operation stops. Read the displayed error message to determine the appropriate actions necessary to correct the problem.

This section describes how to handle error messages that appear on the touch panel display. The two types of error messages are:

- Service Call Messages
- Error Messages



## NOTE

- Other messages that may appear indicate the current condition of the machine.

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## Resetting the Machine After a Service Call Message

If a Service Call message occurs (Exxx-xxxx, where x represents a number), use the following procedure to clear the message.

**1** Press .

**2** Press [Printer Settings].

When a Service Call error occurs, the normal Printer Settings screen does not appear and only the Reset Printer screen appears.

**3** Press [Reset Printer].



## IMPORTANT

- If the Service Call error message still appears after you have performed this procedure, make a note of the number of the message and contact a service representative. When you contact the service representative, tell them the number of the message and the conditions under which the error occurs.

# When a Message Is Displayed

If the printer is unable to print for some reason, the error indicator lights up and a message indicating the cause of the problem is displayed on the touch panel display. When these messages are displayed, take the following action to solve the problem.

## NOTE

- When a message indicating another problem occurs at the same time as the first error message, a warning message will not be displayed.
- When the message is shown with the "Error Skip" mark, you can bypass the error and continue printing by pressing [Error skip]. However if you do this, print data may be lost or the data may not be printed correctly. If you want to cancel the procedure, cancel the print job to remove the cause of the problem, and print the data again.
- To perform an error skip, press [Print] on the System Monitor screen, select the job containing the error, then press [Details] and [Error Skip].
- To cancel a print job, press [Print] on the System Monitor screen, select the job containing the error, then press [Cancel]. (See "Cancelling a Job," in the *Reference Guide*.)

## PDL Offending Command

### Cause

The printer was unable to understand a print command it received.

### Solution

Try resending the PS job. If the problem persists, verify the PS options in the application and print again.

## E677-5801 PDL Accelerator

Service Call

### Cause

An internal error has occurred for the printer function.

### Solution

Perform a printer reset to try to initialize the function again. If this error persists, contact a service representative.

## E677-5802 PDL Initialize Error

Service Call

### Cause

An error occurred during the initialization of the printer function.

### Solution

Perform a printer reset to try to initialize the function again. If this error persists, contact a service representative.

---

**E677-5800 PDL Service Call****Service Call**

<b>Cause</b>	An internal error has occurred.
<b>Solution</b>	Perform a printer reset to try to initialize the function again. If this error persists, contact a service representative.

---

**PDL RIP Initialize Error****Error Skip**

<b>Cause</b>	An error occurred during printer initialization, and the initialization could not be performed correctly.
<b>Solution</b>	Try to initialize again. If the error still occurs, perform a reset and try to initialize again. If the problem still persists, contact a service representative. You must perform a Error Skip manually to skip this error.

---

**PDL Memory Over****Error Skip\*****5**

<b>Cause</b>	The machine's memory is full and printing can not proceed.
<b>Solution</b>	Change the mode setting in the printer driver and try printing again. Or reduce the complexity of the print job by reducing the number of fonts or macros that need to be downloaded to the machine. * : If Auto Continue is selected, this error is skipped automatically.

---

**PDL HD Error****Error Skip**

<b>Cause</b>	The printer has reported a hard disk error.
<b>Solution</b>	Perform a reset and try printing again. If the problem persists, contact a service representative. You must perform a Error Skip manually to skip this error.

---

**PDL Warning**

<b>Cause</b>	An internal error has occurred for the printer function.
<b>Solution</b>	Perform a printer reset to try to initialize the function again. If this error persists, contact a service representative.

---

# Printing Problems

If you have trouble printing, we recommend dealing with the problems in the following ways.

## NOTE

- Please contact your Canon service representative if a problem persists, or if you encounter problems not listed below.

## Printer Trouble

### The printer does not work

5

Troubleshooting

#### Cause 1

There is data remaining in the printer's memory (The Processing/Data lamp is flashing or lit.)

#### Solution

Print out the data.

#### Reference

See "Operating Print Jobs Sent from a Computer," in the *Reference Guide*.

#### Cause 2

There is a problem with the printer or the software.

#### Solution

Look at the message on the display and act accordingly.

#### Reference

See "When a Message Is Displayed," on p. 5-3.

### Printing stops before the job is complete

#### Cause

There is data remaining in the printer's memory (The Processing/Data lamp is flashing or lit.)

#### Solution

Print out the data.

#### Reference

See "Operating Print Jobs Sent from a Computer," in the *Reference Guide*.

### You cannot stop the print job

#### Cause

The print job is too large to be stopped.

#### Solution

Restart any jobs that have been suspended by performing an error skip.

# Printing Problems

5

Troubleshooting

## Meaningless characters are being printed

**Cause 1** You have printed from Windows without installing the printer driver for Windows that was included with the printer.

**Solution** Install the printer driver for Windows that was included with the printer and print the data again.

**Reference** See the *PCL Driver Guide and the PS Driver Guide*.

**Cause 2** DOS application software printer settings are inadequate.

**Solution** Reset the DOS application software printer settings on a printer that is compatible with the machine.

**Reference** See the *PCL Driver Guide and the PS Driver Guide*.

## A font that is different to the one specified is printed

**Cause** The “Replace with TrueType font” setting has been set on the printer driver for Windows.

**Solution** Set the “Replace with TrueType font” setting to the correct setting and print the data again.

**Reference** See the Help function on the printer driver.

## You cannot print the last page

**Cause** The command that identifies the end of the data has not been sent from the PC (The Processing/Data lamp is flashing or lit.).

**Solution** Clear the print data. (When you print from application software that does not have a print function and the last page of data is less than one page, the data will remain in the printer's memory.)

**Reference** See “Operating Print Jobs Sent from a Computer,” in the *Reference Guide*.

---

## The data does not fit on the page properly (All of the data that should be on the page is not printed)

---

**Cause 1** The paper is not in the correct position.

**Solution** Make sure the printer's set correctly and try printing again.

**Reference** See "Loading Paper," in the *Reference Guide*.

**Cause 2** A full page of data, without a border, was printed.

**Solution** Insert a border greater than 5 mm (3/16 in.) around the data and print the data again.  
(Data cannot be printed in a border area of 5 mm (3/16 in.) around the data.)

**Reference** See the application software manual.

---

## The printing location has slipped

---

**Cause 1** Margin, Offset X or Offset Y in the printer settings menu have been changed.

**Solution** Set Margin, Offset X and Offset Y to 0.0 and print the data again.

**Reference** See "Margin," on p. 3-8.  
See "Offset X," and "Offset Y," on p. 3-10.

**Cause 2** The application software's top margin and paper location settings are not correct.

**Solution** Set the correct settings for the top margin and the paper location and print the data again.

**Reference** See the application software manual.

---

## Data that should be printed on the same page is printed on two separate pages

---

**Cause 1** The application software's "Line spacing" and "Number of lines on a page" settings are not correct.

**Solution** Change the settings so that the data fits on one page and print the data again.

**Reference** See the application software manual.

**Cause 2** The Timeout setting is too short, when the Personality setting is set to Auto.

**Solution** Change the Personality setting to a setting other than Auto, or the increase the Timeout setting.

**Reference** See "Personality," on p. 3-19.  
See "Timeout," on p. 3-12.

---

# Print Quality Problems

## The printout is too light or too dark

**Cause 1** The toner density settings are not correct.

**Solution** Adjust Density in the printer settings menu.

**Reference** See "Density," on p. 3-6.

**Cause 2** Toner Save in the printer settings menu is set to [On].

**Solution** Toner Save Mode to [Off].

**Reference** See "Toner Save," on p. 3-6

# 6

## CHAPTER

# Appendix

This chapter shows print samples for different fonts, describes font information, including sources and font lists, and lists a summary of the specifications for the machine.

---

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# Some Basic Facts About Fonts

This section summarises some of the basic facts you should know about fonts.

## What Is a Font?

A font is a collection of letters and symbols used when printing a document. In general, a group of letters and symbols sharing a common design is referred to as a font. A font consists of the letters A to Z in both upper and lowercase, digits, and symbols.

The design that distinguishes one font from another is referred to as a “typeface.” Each font has a typeface name, such as Courier, CG Times, Letter Gothic, etc.

## Attributes of Fonts

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Appendix

All fonts share some common characteristics, which are called “attributes.” The typeface is one such attribute. The letters and symbols that are actually printed are determined by the values of a collection of these attributes.

Typeface	The design of the letters (for example, Courier, CG Times, Letter, or Gothic).
Stroke weight	The thickness of the lines with which the letters are drawn (e.g. bold, medium, or light).
Style	Whether the letters are drawn straight or at an angle (e.g. upright or italic).
Point size	Height of the letters (e.g. 10 point or 5 point).
Pitch (cpi)	Number of characters that are printed in one inch (e.g. 10 cpi, 12 cpi, or Scale).
Character width (Fix/PS)	Indicates whether the character width is set to “Fixed” or “Proportional.”
Defaults Orientation	Orientation of the characters on a page (“Portrait” or “Landscape”).
Symbol set	The rule that defines the correspondence between the character codes coming from the host computer, and the letter forms that appear on the page (for example, Roman-8).

## Typeface

Typeface refers to the design of the characters and symbols. The following figure shows an example of some typefaces.

### ■ Typeface

Courier ABCDEFGHIJKLMNOPQRSTUVWXYZ

Times ABCDEFGHIJKLMNOPQRSTUVWXYZ

Helvetica ABCDEFGHIJKLMNOPQRSTUVWXYZ

## Stroke Weight

Stroke weight refers to the thickness of the print. There are light, medium, and bold stroke weights. The printer function has medium and bold fonts available. The figure below shows an example of medium and bold printing.

### ■ Stroke weight

MEDIUM MEDIUM MEDIUM

**BOLD BOLD BOLD BOLD BOLD**

## Style

Style refers to the shape of the characters. The printer function can print in two styles:

upright and italic. With some fonts like Letter Gothic, the term “Oblique” is used in the same manner as italics.

### ■ Style

UPRIGHT UPRIGHT UPRIGHT

*ITALIC ITALIC ITALIC*

## Point size

Point size refers to the height of the character. Point size is measured in points. One inch is divided into 72 points and 1 point is 1/72 of an inch (about 0.35 mm). The printer function has bit-mapped fonts and scalable fonts available. The bit-mapped fonts are fixed in size, but the scalable fonts are not fixed in size. Scalable fonts are freely scalable to any size you wish in 0.1 point increments. The following figure shows an example of various point sizes.

### ■ Points size

CGTimes 7pt

CGTimes 8pt

CGTimes 9pt

CGTimes 10pt

CGTimes 11pt

CGTimes 12pt

CGTimes 14pt

CGTimes 18pt

**CGTimes 24pt**



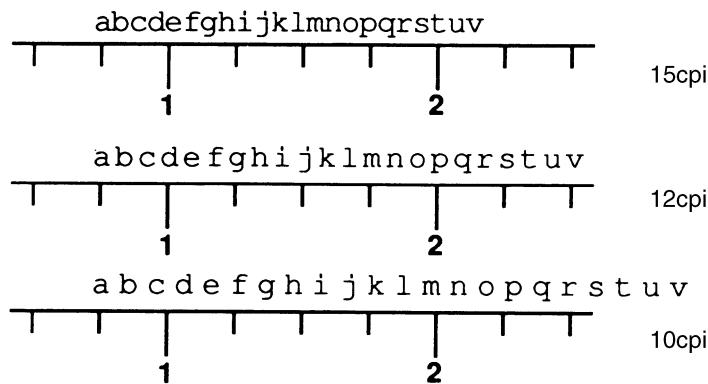
#### NOTE

- Refer to the section “Bit-mapped Fonts and Scalable Fonts,” on p. 6-8 for more information on bit-mapped fonts and scalable fonts.

## Pitch (cpi)

Pitch refers to the number of characters that are printed in one inch. The unit is cpi (characters per inch). As the number of characters per inch increases, the space between characters decreases; as the cpi decreases, the space between characters increases.

### ■ Pitch



## Character Width (Fix and PS)

Each character has a different width from all the other characters in a font at a given point size. For example, “W” is a wider letter than “I.” There are two ways to go about printing letters of different widths: you can print all letters with the same spacing, regardless of their actual width; or you can change the spacing between letters to accommodate these different widths. Printing all letters with the same spacing is called “Fixed spacing”, while changing the spacing to accommodate different letter widths is called “Proportional spacing.”

Because the Fixed spacing method prints all letters with the same spacing, the number of characters which will fit into a given length is a fixed quantity which can be specified.

If the characters are printed with Proportional spacing, then the number of characters that will fit into an inch varies depending on the letters printed.

## ■ Fixed spacing and Proportional spacing

will

Proportional spacing

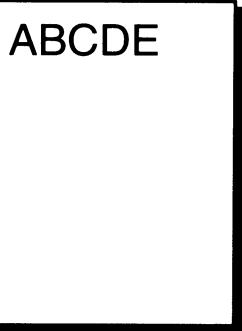
w i | |

Fixed spacing

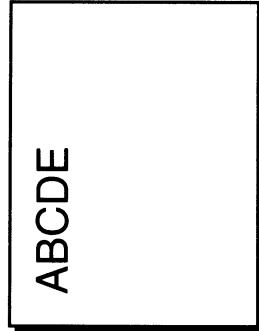
## *Orientation*

Orientation refers to the direction of printing. The printer function can print using two different paper orientations: portrait and landscape. With portrait orientation, text is printed across the width of the paper (short edge), and with landscape orientation, text is printed across the length of the paper (long edge).

### ■ Orientation



Portrait

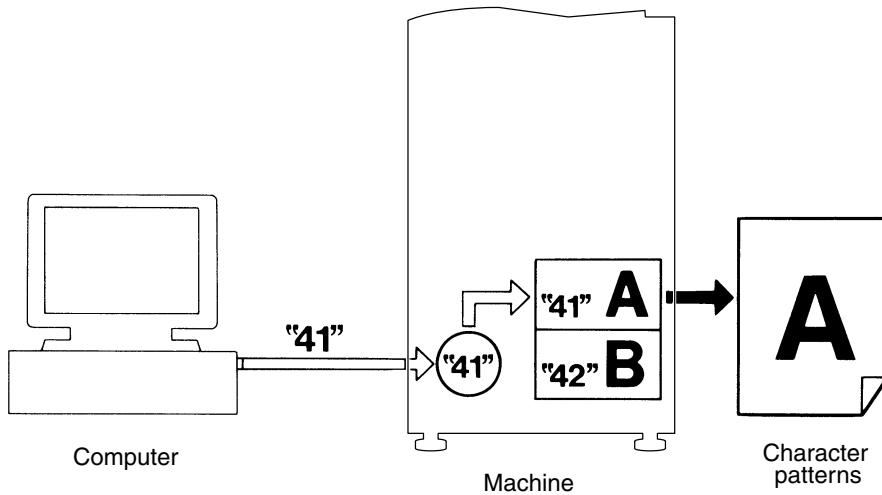


Landscape

## Symbol Set

When you print the letter “A,” the host computer sends a code corresponding to “A” (hexadecimal 41 is an example of this) to the machine. This code is referred to as the character code. The machine stores an internal representation of each character, and selects from among these character patterns the pattern corresponding to the received code. In this case, the machine searches for the pattern for “A,” and prints it.

### ■ The process by which letters are printed



The machine uses a fixed rule to decide which letter or symbol corresponds to the character code sent from the host computer. For example, the letter “A” is printed for the hexadecimal code “41”. The rule which determines the correspondence between character codes and printed letter is called the “symbol set.”

## Bit-mapped Fonts and Scalable Fonts

There are two types of fonts available, and these fonts are distinguished by the type of data from which they are formed.

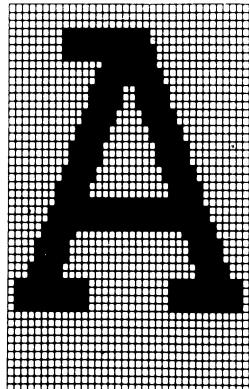
- Bit-mapped fonts
- Scalable fonts

### ***Bit-mapped Fonts***

Each character of bit-mapped fonts are composed of grid of small dots and stored in the machine's memory in dot matrix.

Bit-mapped fonts are fixed in size and specified by the characteristics called "attributes," such as typeface, stroke weight, style and so on. Various types of bit mapped fonts are produced by the combination of these attributes.

#### ■ Bit-mapped fonts

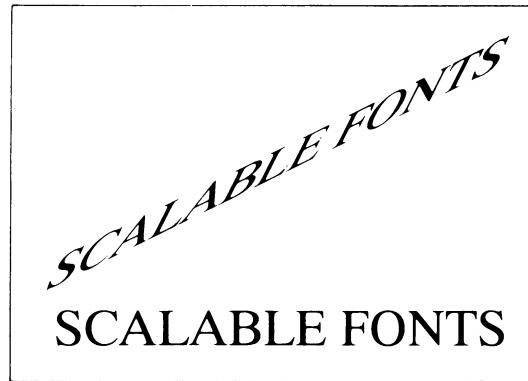


## **Scalable Fonts**

With scalable fonts, characters are freely enlarged or compressed from the one point to any size you wish in 0.1 point increments.

### ■ Scalable fonts

uPSCALINGDOWNSCALIn



## Standard Scalable Fonts (PCL)

With scalable fonts, characters are freely enlarged or compressed from one point to any size you wish in 0.1 point increments. (The maximum range of scaling depends on the size of the memory installed in the machine and the size of the paper used.)

The following scalable typefaces are included with the machine.

Albertus Extra Bold	Helvetica	New Century Schoolbook Bold Italic
Albertus Medium	Helvetica Bold	New Century Schoolbook Italic
AntiqOlive	Helvetica Bold	New Century Schoolbook Roman
AntiqOlive Bold	Oblique	Palatino Bold
AntiqOlive Italic	Helvetica Narrow	Palatino Bold Italic
Arial	Helvetica Narrow	Palatino Italic
Arial Bold	Bold	Palatino Roman
Arial Bold Italic	Helvetica Narrow Bold	Symbol *
Arial Italic	Oblique	SymbolPS
CG Omega	Helvetica Narrow	Times Bold
CG Omega Bold	Oblique	Times Bold Italic
CG Omega Bold Italic	Helvetica Oblique	Times Italic
CG Omega Italic	ITC Avant Garde	Times New
CG Times	Gothic Book	Times New Bold
CG Times Bold	ITC Avant Garde	Times New Bold Italic
CG Times Bold Italic	Gothic Book Oblique	Times New Italic
CG Times Italic	ITC Avant Garde	Times Roman
Clarendon Condensed Bold	Gothic Demi	Universe Medium
Coronet	ITC Avant Garde	Universe Bold
Courier	Gothic Demi Oblique	Universe Bold Condensed
Courier Bold	ITC Bookman Demi	Universe Bold Condensed Italic
Courier Bold Italic	ITC Bookman Demi	Universe Bold Italic
Courier Italic	Italic	Universe Italic
CourierPS	ITC Bookman Light	Universe Medium
CourierPS Bold	ITC Bookman Light	Condensed
CourierPS Oblique	Italic	Universe Medium
CourierPS Bold	ITC Zapf Chancery	Universe Medium
Oblique	Medium Italic	Condensed Italic
Garamond Antique	ITC Zapf Dingbats	Universe Italic
Garamond Halbfett	Letter Gothic	Universe Medium
Garamond Kursiv	Letter Gothic Bold	Condensed
Garamond Kursiv Halbfett	Letter Gothic Italic	Universe Medium
	Marigold	Condensed Italic
	New Century Schoolbook Bold	Wingdings *

\* Support the euro symbol.

## OCR Sets Fonts (PCL)

OCR A  
OCR B

## Bar Code Fonts (PCL)

BC3 of 9 Thin	BC3 of 9 Heavy	Code 128 Condensed
BC3 of 9 Light	Code 128	Bold
BC3 of 9	Code 128 Bold	Code 128 Expanded
BC3 of 9 SemiBold	Code 128 Condensed	

Code 128 Expanded	Interleaved 2 of 5 Bold	PostNet
Bold	Interleaved 2 of 5 Narrow Light	UPC/EAN
Codebar	Interleaved 2 of 5 Narrow	UPC/EAN Bold
Codebar Condensed	Interleaved 2 of 5 Narrow	UPC/EAN Condensed
Codebar Expanded	Interleaved 2 of 5 Narrow	UPC/EAN Condensed Bold
Interleaved 2 of 5 Light	Interleaved 2 of 5 Narrow Semi	UPC/EAN Expanded
Interleaved 2 of 5	Interleaved 2 of 5 Narrow	UPC/EAN Expanded Bold
Interleaved 2 of 5	Interleaved 2 of 5 Narrow Bold	MSI Plessey
Semi		

## ***Symbol Sets (For Scalable Typefaces Only)***

The following symbol sets are included with the machine.

ASCII (ISO6)	ISO United Kingdom (ISO4)	PI Font
BC3 of 9 Barcode	Legal	PostNet
Code 128 Barcode	Math-8	PS Math
Codebar	MC Text	PS Text
Desktop	Microsoft Publishing	Roman-8
Interleaved Barcode	MSI Plessey	Symbol
ISO 8859-1 Latin 1	PC-1004 (OS/2)	UPC/EAN Barcode
ISO 8859-10 Latin 6	PC-775	Ventura International
ISO 8859-2 Latin 2	PC-8	Ventura Math
ISO 8859-3 Latin 5	PC-8 Danish/Norwegian	Ventura US
ISO French (ISO69)	PC-8 Greek Alternate	Windows 3.0 Latin 1
ISO German (ISO21)	CodePage437	Windows Baltic *
ISO Italian (ISO15)	PC-80	Windows Latin 1 *
ISO Norwegian (ISO60)	PC-852	Windows Latin 2 *
ISO Spanish (ISO17)	PC-860 Portugal	Windows Latin 5 *
ISO Swedish:names (ISO11)	PC-865 Norway	Wingdings
	PC-Turkish	

\* Support the euro symbol.

## ***PS Fonts (Printer Kit-C1 Only)***

AlbertusMT	Arial ItalicMT	AvantGardeCE Demi-
AlbertusMT Italic	ArialCE Italic	Oblique
AlbertusMT Light	Arial BoldMT	Bodoni
AntiqueOlive Roman	ArialCE Bold	BodoniCE
AntiqueOliveCE	Arial BoldItalicMT	Bodoni Italic
Roman	ArialCE BoldItalic	BodoniCE Italic
AntiqueOlive Italic	AvantGarde Book	Bodoni Bold
AntiqueOliveCE Italic	AvantGardeCE Book	BodoniCE Bold
AntiqueOlive Bold	AvantGarde BookOblique	Bodoni BoldItalic
AntiqueOliveCE Bold	AvantGardeCE	BodoniCE BoldItalic
AntiqueOlive Compact	BookOblique	Bodoni Poster
AntiqueOliveCE Compact	AvantGarde Demi	BodoniCE Poster
Apple Chancery	AvantGardeCE Demi	Bodoni PosterCom-
Apple ChanceryCE	AvantGarde DemiOblique	pressed
ArialMT		BodoniCE Poster-Compressed
ArialCE		Bookman Light

BookmanCE Light	GillSansCE BoldItalic	HoeflerTextCE Regular
Bookman LightItalic	GillSans Condensed	HoeflerText Italic
BookmanCE Lightitalic	GillSansCE Condensed	HoeflerTextCE Italic
Bookman Demi	GillSans BoldCondensed	HoeflerText Black
BookmanCE Demi	GillSansCE BoldCondensed	HoeflerTextCE Black
Bookman Demiitalic	GillSansCE BoldCondensed	HoeflerText BlackItalic
BookmanCE Demiitalic	GillSans Light	HoeflerTextCE BlackItalic
Candid	GillSansCE Light	HoeflerText Ornaments
Chicago	GillSans LightItalic	JoannaMT
Chicago CE	GillSansCE LightItalic	JoannaMTCE
Clarendon	GillSans ExtraBold	JoannaMT Italic
ClarendonCE	GillSansCE ExtraBold	JoannaMTCE Italic
Clarendon Light	Goudy	JoannaMT Bold
ClarendonCE Light	Goudy Italic	JoannaMTCE Bold
Clarendon Bold	Goudy Bold	JoannaMT BoldItalic
ClarendonCE Bold	Goudy BoldItalic	JoannaMTCE BoldItalic
CooperBlack	Goudy ExtraBold	JoannaMTCE BoldItalic
CooperBlack Italic	Helvetica	LetterGothic
Copperplate ThirtyTwoBC	HelveticaCE	LetterGothicCE
Copperplate ThirtyThreeBC	Helvetica Oblique	LetterGothic Slanted
Coronet Regular	HelveticaCE Oblique	LetterGothicCE
CoronetCE Regular	Helvetica Bold	Slanted
Courier	HelveticaCE Bold	LetterGothic Bold
CourierCE	HelveticaCE BoldOblique	LetterGothicCE Bold
Courier Oblique	Helvetica Condensed	LetterGothic Bold- Slanted
CourierCE Oblique	HelveticaCE Cond	LetterGothicCE Bold- Slanted
Courier Bold	Helvetica Condensed	LubalinGraph Book
CourierCE Bold	HelveticaCE CondObl	LubalinGraphCE Book
Courier BoldOblique	Helvetica Condensed	LubalinGraph BookOblique
CourierCE BoldOblique	HelveticaCE Cond	LubalinGraphCE BookOblique
Eurostile	HelveticaCE Cond-Bold	LubalinGraph Demi
EurostileCE	Helvetica Condensed	LubalinGraphCE Demi
Eurostile Bold	HelveticaCE BoldObl	Demi
EurostileCE Bold	HelveticaCE Cond-BoldObl	LubalinGraph Demi- Oblique
Eurostile ExtendedTwo	Helvetica Narrow	LubalinGraphCE DemiOblique
EurostileCE ExtendedTwo	HelveticaCE Narrow	Marigold
Eurostile BoldExtendedTwo	Helvetica Narrow Bold	Monaco
EurostileCE BoldExtendedTwo	HelveticaCE Narrow-Bold	MonacoCE
Geneva	Helvetica Narrow	MonaLisa Recut
GenevaCE	HelveticaCE BoldOblique	NewCenturySchlbk
GillSans	HelveticaCE Narrow	Roman
GillSansCE Roman	HelveticaCE BoldOblique	NewCenturySchlbkCE Roman
GillSans Italic	Helvetica Narrow	NewCenturySchlbk
GillSansCE Italic	HelveticaCE Oblique	Italic
GillSans Bold	HelveticaCE Narrow- Oblique	NewCenturySchlbkCE Italic
GillSansCE Bold	HoeflerText Regular	
GillSans BoldItalic		

NewCenturySchlbk	TimesNewRomanPS
Bold	ItalicMT
NewCenturySchlbk Bold	TimesNewRomanCE
NewCenturySchlbk BoldItalic	Italic
NewCenturySchlbk BoldItalic	TimesNewRomanPS
NewCenturySchlbk BoldItalic	BoldMT
NewCenturySchlbk BoldItalic	TimesNewRomanCE
NewYork	Bold
NewYorkCE	TimesNewRomanPS
Optima	BoldItalicMT
OptimaCE Roman	TimesNewRomanCE
Optima Italic	BoldItalic
OptimaCE Italic	Univers
Optima Bold	UniversCE Medium
OptimaCE Bold	Univers Oblique
Optima BoldItalic	UniversCE Oblique
OptimaCE BoldItalic	Univers Bold
Oxford	UniversCE Bold
Palatino Roman	Univers BoldOblique
PalatinoCE Roman	UniversCE BoldOblique
Palatino Italic	Univers Light
PalatinoCE Italic	UniversCE Light
Palatino Bold	Univers Light Oblique
PalatinoCE Bold	Univers CE Light
Palatino BoldItalic	Oblique
PalatinoCE BoldItalic	Univers Condensed
StempelGaramond Roman	UniversCE Condensed
StempelGaramond Roman	Univers Condense-dOblique
StempelGaramond Italic	UniversCE Condense-dOblique
StempelGaramond Italic	Univers Condensed-Bold
StempelGaramond Bold	UniversCE Condensed-Bold
StempelGaramond Bold	Univers Condensed-BoldOblique
StempelGaramond BoldItalic	UniversCE CondensedBoldOblique
StempelGaramond BoldItalic	Univers Extended
StempelGaramond BoldItalic	UniversCE Extended
Symbol	Univers ExtendedObl
Tekton	UniversCE ExtendedObl
Times Roman	Univers BoldExt
TimesCE Roman	UniversCE BoldExt
Times Italic	Univers BoldExtObl
TimesCE Italic	UniversCE BoldExtObl
Times Bold	Wingdings Regular
TimesCE Bold	ZapfChancery
Times BoldItalic	MediumItalic
TimesCE BoldItalic	ZapfChanceryCE
TimesNewRomanPSMT	MediumItalic
TimesNewRomanCE	ZapfDingbats

# Checking the Font Lists for Available Fonts

Font lists are a comprehensive listing of all fonts currently available. The listing contains both the names of resident fonts, and the names of the fonts stored on any external hard disk that may be present.

## PCL FONT LISTS

<b>FONT LISTS</b>					
<b>①</b> Font Name Symbol	<b>②</b> Spacing	<b>③</b> Style	<b>④</b> StrokeW.	<b>⑤</b> Pitch/Point Typeface	<b>⑥</b> Sample
Courier	0	0	0	scalable 4099	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
CG Times	1	0	0	scalable 4101	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
CG Times Bold	1	0	3	scalable 4101	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
CG Times Italic	1	1	0	scalable 4101	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
CG Times Bold Italic	1	1	3	scalable 4101	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
CG Omega	1	0	0	scalable 4113	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
CG Omega Bold	1	0	3	scalable 4113	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
CG Omega Italic	1	1	0	scalable 4113	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
CG Omega Bold Italic	1	1	3	scalable 4113	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
Coronet	1	1	0	scalable 4116	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
Clarendon Condensed	1	4	3	scalable 4140	ABCDEF <sup>GHIJKLMNOP</sup> qrstuvwxyz
Univers Medium	1	0	0	scalable 4148	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
Univers Bold	1	0	3	scalable 4148	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
Univers Medium Italic	1	1	0	scalable 4148	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
Univers Bold Italic	1	1	3	scalable 4148	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
Univers Medium Condensed	1	1	4	scalable 4148	ABCDEF <sup>GHIJKLMNOP</sup> qrstuvwxyz
Univers Bold Condensed	1	4	3	scalable 4148	ABCDEF <sup>GHIJKLMNOP</sup> qrstuvwxyz
Univers Medium Condensed Italic	1	5	0	scalable 4148	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
Univers Bold Condensed Italic	1	5	3	scalable 4148	ABCDEF <sup>GHIJKLMNOP</sup> qrstuvwxyz
Antique Olive	1	0	0	scalable 4168	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
Antique Olive Bold	1	0	3	scalable 4168	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
Antique Olive Italic	1	1	0	scalable 4168	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
Garamond Antique	1	0	0	scalable 4197	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
Garamond Halbfett	1	0	3	scalable 4197	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
Garamond Kursiv	1	1	0	scalable 4197	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz
Garamond Kursiv Halbfett	1	1	3	scalable 4197	ABCDEF <sup>GHIJKLMNOP</sup> uvwxyz

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## PS FONT LISTS (Printer Kit-C1 Only)

<b>FONT LISTS</b>	
<b>①</b> Font Name	<b>⑥</b> Sample
AlbertusMT	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
AlbertusMT-Italic	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
AlbertusMT-Light	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
AntiqueOlive-Roman	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
AntiqueOliveCE-Roman	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
AntiqueOlive-Italic	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
AntiqueOliveCE-Italic	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
AntiqueOlive-Bold	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
AntiqueOliveCE-Bold	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
AntiqueOlive-Compact	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
AntiqueOliveCE-Compact	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
Apple-Chancery	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
Apple-ChanceryCE	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
ArialMT	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
ArialICE	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
Arial-ItalicMT	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
ArialCE-Italic	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
Arial-BoldMT	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
ArialCE-Bold	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
Arial-BoldItalicMT	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
ArialCE-BoldItalic	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
AvantGarde-Book	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
AvantGardeCE-Book	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
AvantGarde-BookOblique	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
AvantGardeCE-BookOblique	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
AvantGarde-Demi	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
AvantGardeCE-Demi	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>
AvantGarde-DemiOblique	ABCDEF <sup>GHIJKLMNOPQRSTUVWXYZ</sup>

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The Font List includes the following information:

**① Font Name**

The typeface name.

**② Spacing**

This indicates whether a font is a fixed-size, non-proportional font or a proportional font.

**③ Style**

Upright (straight) characters or italic (slanted) characters.

**④ Stroke Weight**

The stroke weight of the characters in the font.

**⑤ Pitch/Point Size**

The pitch and point size. For a scalable font, Scale is displayed. The vertical distance in points from the top of capital letters to the tail of the letter y.

**⑥ Print sample**

A print sample of the font.

# Typeface Samples

## **Standard Scalable Fonts (PCL)**

Courier	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Times	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Times Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Times Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Times Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Omega	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Omega Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Omega Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Omega Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Coronet	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Clarendon Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Medium	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Medium Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Medium Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Bold Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Medium Condensed Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Bold Condensed Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Antique Olive	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Antique Olive Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Antique Olive Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Garamond Antique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Garamond Halbfett	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Garamond Kursiv	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Garamond Kursiv Halbfett	ABCDEFGHIJKLMNOPQRSTUVWXYZ

Marigold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Albertus Medium	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Albertus Extra Bold	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
Arial	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Arial Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Arial Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Arial Bold Italic	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
Times New	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times New Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times New Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times New Bold Italic	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
Helvetica	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Bold Oblique	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
Helvetica Narrow	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Narrow Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Narrow Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Narrow Bold Oblique	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
Palatino Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Palatino Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Palatino Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Palatino Bold Italic	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
ITC Avant Garde Gothic Book	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ITC Avant Garde Gothic Demi	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
ITC Avant Garde Gothic Book Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ



## Bar Code Scalable Fonts (PCL)

BC 3 of 9 Thin	
BC 3 of 9 Light	
BC 3 of 9	
BC 3 of 9 Semi	
BC 3 of 9 Heavy	
Code 128	
Code 128 Bold	
Code 128 Condensed	
Code 128 Condensed Bold	
Code 128 Expanded	
Code 128 Expanded Bold	
Interleaved 2 of 5 Light	
Interleaved 2 of 5	
Interleaved 2 of 5 Semi	
Interleaved 2 of 5 Bold	
Interleaved 2 of 5 Narrow Light	
Interleaved 2 of 5 Narrow	
Interleaved 2 of 5 Narrow Semi	
Interleaved 2 of 5 Narrow Bold	
UPC/EAN	
UPC/EAN Bold	
UPC/EAN Condensed	
UPC/EAN Condensed Bold	
UPC/EAN Expanded	
UPC/EAN Expanded Bold	
Codebar	
Codebar Condensed	
Codebar Expanded	
MSI Plessey	
PostNet	

## ***OCR Code Scalable Fonts (PCL)***

OCR A

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

OCR B

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

## ***Bit-mapped Fonts***

Line Printer

A B C D E F G H I J K Å Æ Ë Ì Ý Ñ Ù Ø £

Line Printer

A B C D E F G H I J K

Line Printer

A B C D E F G H I J K Í Ó Ú Ñ Æ Ò Ð Æ Ñ Í Ð Ó

Line Printer

A B C D E F G H I J K Í Ó Ú Ñ Æ Ò Ð Æ Ñ Í Ð Ó

Line Printer

A B C D E F G H I J K Í Ó Ú Ñ Æ Ò Ð Æ Ñ Í Ð Ó

Line Printer

A B C D E F G H I J K

Line Printer

A B C D E F G H I J K Å Æ Ë Ì Ý Ñ Ù Ø £

Line Printer

A B C D E F G H I J K ; Ç Ö Y ! S ~ Ö @ « ~ Ö ~

Line Printer

A B C D E F G H I J K Å Æ Ë Ì Ý Ñ Ù Ø £

## ***PS Fonts (Printer Kit-C1 Only)***

AlbertusMT	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AlbertusMT Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AlbertusMT Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AntiqueOlive Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AntiqueOliveCE Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AntiqueOlive Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AntiqueOliveCE Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AntiqueOlive Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AntiqueOliveCE Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AntiqueOlive Compact	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
AntiqueOliveCE Compact	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
Apple Chancery	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Apple ChanceryCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ArialMT	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ArialCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Arial ItalicMT	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ArialCE Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Arial BoldMT	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ArialCE Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Arial BoldItalicMT	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ArialCE BoldItalic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AvantGarde Book	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AvantGardeCE Book	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AvantGarde BookOblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AvantGardeCE BookOblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AvantGarde Demi	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AvantGardeCE Demi	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AvantGarde DemiOblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ

AvantGardeCE DemiOblique	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
Bodoni	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
BodoniCE	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
Bodoni Italic	<i>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</i>
BodoniCE Italic	<i>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</i>
Bodoni Bold	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
BodoniCE Bold	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
Bodoni BoldItalic	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
BodoniCE BoldItalic	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
Bodoni Poster	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
BodoniCE Poster	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
Bodoni PosterCompressed	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
BodoniCE PosterCompressed	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
Bookman Light	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
BookmanCE Light	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
Bookman LightItalic	<i>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</i>
BookmanCE LightItalic	<i>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</i>
Bookman Demi	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
BookmanCE Demi	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
Bookman DemiItalic	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
BookmanCE DemiItalic	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
Candid	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
Chicago	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
Chicago CE	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
Clarendon	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
ClarendonCE	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
Clarendon Light	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>
ClarendonCE Light	<b>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</b>

Clarendon Bold	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
ClarendonCE Bold	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
CooperBlack	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
CooperBlack Italic	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
Copperplate ThirtyTwoBC	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Copperplate ThirtyThreeBC	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
Coronet Regular	<i>ABCDEFGHIJKLMNOPQRSTUVWXYZ</i>
CoronetCE Regular	<i>ABCDEFGHIJKLMNOPQRSTUVWXYZ</i>
Courier	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Courier Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierCE Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Courier Bold	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
CourierCE Bold	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
Courier BoldOblique	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
CourierCE BoldOblique	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
Eurostile	ABCDEFGHIJKLMNOPQRSTUVWXYZ
EurostileCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Eurostile Bold	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
EurostileCE Bold	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
Eurostile ExtendedTwo	ABCDEFGHIJKLMNOPQRSTUVWXYZ
EurostileCE ExtendedTwo	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Eurostile BoldExtendedTwo	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
EurostileCE BoldExtendedTwo	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
Geneva	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GenevaCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSans	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSansCE Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ

GillSans Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSansCE Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSans Bold	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
GillSansCE Bold	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
GillSans BoldItalic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSansCE BoldItalic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSans Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSansCE Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSans BoldCondensed	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
GillSansCE BoldCondensed	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
GillSans Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSansCE Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSans LightItalic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSansCE LightItalic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSans ExtraBold	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
GillSansCE ExtraBold	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
Goudy	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Goudy Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Goudy Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Goudy BoldItalic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Goudy ExtraBold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica	ABCDEFGHIJKLMNOPQRSTUVWXYZ
HelveticaCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
HelveticaCE Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Bold	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
HelveticaCE Bold	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
Helvetica BoldOblique	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>



JoannaMT Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
JoannaMTCE Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
JoannaMT Bold	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
JoannaMTCE Bold	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
JoannaMT BoldItalic	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
JoannaMTCE BoldItalic	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
LetterGothic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LetterGothicCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LetterGothic Slanted	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LetterGothicCE Slanted	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LetterGothic Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LetterGothicCE Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LetterGothic BoldSlanted	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LetterGothicCE BoldSlanted	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LubalinGraph Book	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LubalinGraphCE Book	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LubalinGraph BookOblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LubalinGraphCE BookOblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LubalinGraph Demi	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
LubalinGraphCE Demi	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
LubalinGraph DemiOblique	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
LubalinGraphCE DemiOblique	<b>ABCDEFGHIJKLMNOPQRSTUVWXYZ</b>
Marigold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Monaco	ABCDEFGHIJKLMNOPQRSTUVWXYZ
MonacoCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
MonaLisa Recut	ABCDEFGHIJKLMNOPQRSTUVWXYZ
NewCenturySchlbk Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
NewCenturySchlbkCE Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ

NewCenturySchlbk Italic	<b>A</b> <i>B</i> <i>C</i> <i>D</i> <i>E</i> <i>F</i> <i>G</i> <i>H</i> <i>I</i> <b>J</b> <i>K</i> <i>L</i> <i>M</i> <i>N</i> <i>O</i> <i>P</i> <i>Q</i> <i>R</i> <i>S</i> <i>T</i> <i>U</i> <i>V</i> <i>W</i> <i>X</i> <i>Y</i> <i>Z</i>
NewCenturySchlbkCE Italic	<b>A</b> <i>B</i> <i>C</i> <i>D</i> <i>E</i> <i>F</i> <i>G</i> <i>H</i> <i>I</i> <b>J</b> <i>K</i> <i>L</i> <i>M</i> <i>N</i> <i>O</i> <i>P</i> <i>Q</i> <i>R</i> <i>S</i> <i>T</i> <i>U</i> <i>V</i> <i>W</i> <i>X</i> <i>Y</i> <i>Z</i>
NewCenturySchlbk Bold	<b>A</b> <b>C</b> <b>D</b> <b>E</b> <b>F</b> <b>G</b> <b>H</b> <b>I</b> <b>J</b> <b>K</b> <b>L</b> <b>M</b> <b>N</b> <b>O</b> <b>P</b> <b>Q</b> <b>R</b> <b>S</b> <b>T</b> <b>U</b> <b>V</b> <b>W</b> <b>X</b> <b>Y</b> <b>Z</b>
NewCenturySchlbkCE Bold	<b>A</b> <b>C</b> <b>D</b> <b>E</b> <b>F</b> <b>G</b> <b>H</b> <b>I</b> <b>J</b> <b>K</b> <b>L</b> <b>M</b> <b>N</b> <b>O</b> <b>P</b> <b>Q</b> <b>R</b> <b>S</b> <b>T</b> <b>U</b> <b>V</b> <b>W</b> <b>X</b> <b>Y</b> <b>Z</b>
NewCenturySchlbk BoldItalic	<b>A</b> <b>C</b> <b>D</b> <b>E</b> <b>F</b> <b>G</b> <b>H</b> <b>I</b> <b>J</b> <b>K</b> <b>L</b> <b>M</b> <b>N</b> <b>O</b> <b>P</b> <b>Q</b> <b>R</b> <b>S</b> <b>T</b> <b>U</b> <b>V</b> <b>W</b> <b>X</b> <b>Y</b> <b>Z</b>
NewCenturySchlbkCE BoldItalic	<b>A</b> <b>C</b> <b>D</b> <b>E</b> <b>F</b> <b>G</b> <b>H</b> <b>I</b> <b>J</b> <b>K</b> <b>L</b> <b>M</b> <b>N</b> <b>O</b> <b>P</b> <b>Q</b> <b>R</b> <b>S</b> <b>T</b> <b>U</b> <b>V</b> <b>W</b> <b>X</b> <b>Y</b> <b>Z</b>
NewYork	<b>A</b> <i>B</i> <i>C</i> <i>D</i> <i>E</i> <i>F</i> <i>G</i> <i>H</i> <i>I</i> <b>J</b> <i>K</i> <i>L</i> <i>M</i> <i>N</i> <i>O</i> <i>P</i> <i>Q</i> <i>R</i> <i>S</i> <i>T</i> <i>U</i> <i>V</i> <i>W</i> <i>X</i> <i>Y</i> <i>Z</i>
NewYorkCE	<b>A</b> <i>B</i> <i>C</i> <i>D</i> <i>E</i> <i>F</i> <i>G</i> <i>H</i> <i>I</i> <b>J</b> <i>K</i> <i>L</i> <i>M</i> <i>N</i> <i>O</i> <i>P</i> <i>Q</i> <i>R</i> <i>S</i> <i>T</i> <i>U</i> <i>V</i> <i>W</i> <i>X</i> <i>Y</i> <i>Z</i>
Optima	<b>A</b> <i>B</i> <i>C</i> <i>D</i> <i>E</i> <i>F</i> <i>G</i> <i>H</i> <i>I</i> <b>J</b> <i>K</i> <i>L</i> <i>M</i> <i>N</i> <i>O</i> <i>P</i> <i>Q</i> <i>R</i> <i>S</i> <i>T</i> <i>U</i> <i>V</i> <i>W</i> <i>X</i> <i>Y</i> <i>Z</i>
OptimaCE Roman	<b>A</b> <i>B</i> <i>C</i> <i>D</i> <i>E</i> <i>F</i> <i>G</i> <i>H</i> <i>I</i> <b>J</b> <i>K</i> <i>L</i> <i>M</i> <i>N</i> <i>O</i> <i>P</i> <i>Q</i> <i>R</i> <i>S</i> <i>T</i> <i>U</i> <i>V</i> <i>W</i> <i>X</i> <i>Y</i> <i>Z</i>
Optima Italic	<b>A</b> <i>B</i> <i>C</i> <i>D</i> <i>E</i> <i>F</i> <i>G</i> <i>H</i> <i>I</i> <b>J</b> <i>K</i> <i>L</i> <i>M</i> <i>N</i> <i>O</i> <i>P</i> <i>Q</i> <i>R</i> <i>S</i> <i>T</i> <i>U</i> <i>V</i> <i>W</i> <i>X</i> <i>Y</i> <i>Z</i>
OptimaCE Italic	<b>A</b> <i>B</i> <i>C</i> <i>D</i> <i>E</i> <i>F</i> <i>G</i> <i>H</i> <i>I</i> <b>J</b> <i>K</i> <i>L</i> <i>M</i> <i>N</i> <i>O</i> <i>P</i> <i>Q</i> <i>R</i> <i>S</i> <i>T</i> <i>U</i> <i>V</i> <i>W</i> <i>X</i> <i>Y</i> <i>Z</i>
Optima Bold	<b>A</b> <b>C</b> <b>D</b> <b>E</b> <b>F</b> <b>G</b> <b>H</b> <b>I</b> <b>J</b> <b>K</b> <b>L</b> <b>M</b> <b>N</b> <b>O</b> <b>P</b> <b>Q</b> <b>R</b> <b>S</b> <b>T</b> <b>U</b> <b>V</b> <b>W</b> <b>X</b> <b>Y</b> <b>Z</b>
OptimaCE Bold	<b>A</b> <b>C</b> <b>D</b> <b>E</b> <b>F</b> <b>G</b> <b>H</b> <b>I</b> <b>J</b> <b>K</b> <b>L</b> <b>M</b> <b>N</b> <b>O</b> <b>P</b> <b>Q</b> <b>R</b> <b>S</b> <b>T</b> <b>U</b> <b>V</b> <b>W</b> <b>X</b> <b>Y</b> <b>Z</b>
Optima BoldItalic	<b>A</b> <b>C</b> <b>D</b> <b>E</b> <b>F</b> <b>G</b> <b>H</b> <b>I</b> <b>J</b> <b>K</b> <b>L</b> <b>M</b> <b>N</b> <b>O</b> <b>P</b> <b>Q</b> <b>R</b> <b>S</b> <b>T</b> <b>U</b> <b>V</b> <b>W</b> <b>X</b> <b>Y</b> <b>Z</b>
OptimaCE BoldItalic	<b>A</b> <b>C</b> <b>D</b> <b>E</b> <b>F</b> <b>G</b> <b>H</b> <b>I</b> <b>J</b> <b>K</b> <b>L</b> <b>M</b> <b>N</b> <b>O</b> <b>P</b> <b>Q</b> <b>R</b> <b>S</b> <b>T</b> <b>U</b> <b>V</b> <b>W</b> <b>X</b> <b>Y</b> <b>Z</b>
Oxford	<b>A</b> <i>B</i> <i>C</i> <i>D</i> <i>E</i> <i>F</i> <i>G</i> <i>H</i> <i>I</i> <b>J</b> <i>K</i> <i>L</i> <i>M</i> <i>N</i> <i>O</i> <i>P</i> <i>Q</i> <i>R</i> <i>S</i> <i>T</i> <i>U</i> <i>V</i> <i>W</i> <i>X</i> <i>Y</i> <i>Z</i>
Palatino Roman	<b>A</b> <i>B</i> <i>C</i> <i>D</i> <i>E</i> <i>F</i> <i>G</i> <i>H</i> <i>I</i> <b>J</b> <i>K</i> <i>L</i> <i>M</i> <i>N</i> <i>O</i> <i>P</i> <i>Q</i> <i>R</i> <i>S</i> <i>T</i> <i>U</i> <i>V</i> <i>W</i> <i>X</i> <i>Y</i> <i>Z</i>
PalatinoCE Roman	<b>A</b> <i>B</i> <i>C</i> <i>D</i> <i>E</i> <i>F</i> <i>G</i> <i>H</i> <i>I</i> <b>J</b> <i>K</i> <i>L</i> <i>M</i> <i>N</i> <i>O</i> <i>P</i> <i>Q</i> <i>R</i> <i>S</i> <i>T</i> <i>U</i> <i>V</i> <i>W</i> <i>X</i> <i>Y</i> <i>Z</i>
Palatino Italic	<b>A</b> <i>B</i> <i>C</i> <i>D</i> <i>E</i> <i>F</i> <i>G</i> <i>H</i> <i>I</i> <b>J</b> <i>K</i> <i>L</i> <i>M</i> <i>N</i> <i>O</i> <i>P</i> <i>Q</i> <i>R</i> <i>S</i> <i>T</i> <i>U</i> <i>V</i> <i>W</i> <i>X</i> <i>Y</i> <i>Z</i>
PalatinoCE Italic	<b>A</b> <i>B</i> <i>C</i> <i>D</i> <i>E</i> <i>F</i> <i>G</i> <i>H</i> <i>I</i> <b>J</b> <i>K</i> <i>L</i> <i>M</i> <i>N</i> <i>O</i> <i>P</i> <i>Q</i> <i>R</i> <i>S</i> <i>T</i> <i>U</i> <i>V</i> <i>W</i> <i>X</i> <i>Y</i> <i>Z</i>
Palatino Bold	<b>A</b> <b>C</b> <b>D</b> <b>E</b> <b>F</b> <b>G</b> <b>H</b> <b>I</b> <b>J</b> <b>K</b> <b>L</b> <b>M</b> <b>N</b> <b>O</b> <b>P</b> <b>Q</b> <b>R</b> <b>S</b> <b>T</b> <b>U</b> <b>V</b> <b>W</b> <b>X</b> <b>Y</b> <b>Z</b>
PalatinoCE Bold	<b>A</b> <b>C</b> <b>D</b> <b>E</b> <b>F</b> <b>G</b> <b>H</b> <b>I</b> <b>J</b> <b>K</b> <b>L</b> <b>M</b> <b>N</b> <b>O</b> <b>P</b> <b>Q</b> <b>R</b> <b>S</b> <b>T</b> <b>U</b> <b>V</b> <b>W</b> <b>X</b> <b>Y</b> <b>Z</b>
Palatino BoldItalic	<b>A</b> <b>C</b> <b>D</b> <b>E</b> <b>F</b> <b>G</b> <b>H</b> <b>I</b> <b>J</b> <b>K</b> <b>L</b> <b>M</b> <b>N</b> <b>O</b> <b>P</b> <b>Q</b> <b>R</b> <b>S</b> <b>T</b> <b>U</b> <b>V</b> <b>W</b> <b>X</b> <b>Y</b> <b>Z</b>
PalatinoCE BoldItalic	<b>A</b> <b>C</b> <b>D</b> <b>E</b> <b>F</b> <b>G</b> <b>H</b> <b>I</b> <b>J</b> <b>K</b> <b>L</b> <b>M</b> <b>N</b> <b>O</b> <b>P</b> <b>Q</b> <b>R</b> <b>S</b> <b>T</b> <b>U</b> <b>V</b> <b>W</b> <b>X</b> <b>Y</b> <b>Z</b>
StempelGaramond Roman	<b>A</b> <i>B</i> <i>C</i> <i>D</i> <i>E</i> <i>F</i> <i>G</i> <i>H</i> <i>I</i> <b>J</b> <i>K</i> <i>L</i> <i>M</i> <i>N</i> <i>O</i> <i>P</i> <i>Q</i> <i>R</i> <i>S</i> <i>T</i> <i>U</i> <i>V</i> <i>W</i> <i>X</i> <i>Y</i> <i>Z</i>
StempelGaramondCE Roman	<b>A</b> <i>B</i> <i>C</i> <i>D</i> <i>E</i> <i>F</i> <i>G</i> <i>H</i> <i>I</i> <b>J</b> <i>K</i> <i>L</i> <i>M</i> <i>N</i> <i>O</i> <i>P</i> <i>Q</i> <i>R</i> <i>S</i> <i>T</i> <i>U</i> <i>V</i> <i>W</i> <i>X</i> <i>Y</i> <i>Z</i>
StempelGaramond Italic	<b>A</b> <i>B</i> <i>C</i> <i>D</i> <i>E</i> <i>F</i> <i>G</i> <i>H</i> <i>I</i> <b>J</b> <i>K</i> <i>L</i> <i>M</i> <i>N</i> <i>O</i> <i>P</i> <i>Q</i> <i>R</i> <i>S</i> <i>T</i> <i>U</i> <i>V</i> <i>W</i> <i>X</i> <i>Y</i> <i>Z</i>

StempelGaramondCE Italic	ABCDEFGHIJKLMNOPQRSTUWWXYZ
StempelGaramond Bold	ABCDEFGHIJKLMNOPQRSTUWWXYZ
StempelGaramondCE Bold	ABCDEFGHIJKLMNOPQRSTUWWXYZ
StempelGaramond BoldItalic	ABCDEFGHIJKLMNOPQRSTUWWXYZ
StempelGaramondCE BoldItalic	ABCDEFGHIJKLMNOPQRSTUWWXYZ
Symbol	ΑΒΧΔΕΦΓΗΙΩΚΑΜΝΟΠΘΡΣΤΥҪΩΞΨΖ
Tekton	ABCDEFGHIJKLMNOPQRSTUWWXYZ
Times Roman	ABCDEFGHIJKLMNOPQRSTUWWXYZ
TimesCE Roman	ABCDEFGHIJKLMNOPQRSTUWWXYZ
Times Italic	ABCDEFGHIJKLMNOPQRSTUWWXYZ
TimesCE Italic	ABCDEFGHIJKLMNOPQRSTUWWXYZ
Times Bold	ABCDEFGHIJKLMNOPQRSTUWWXYZ
TimesCE Bold	ABCDEFGHIJKLMNOPQRSTUWWXYZ
Times BoldItalic	ABCDEFGHIJKLMNOPQRSTUWWXYZ
TimesCE BoldItalic	ABCDEFGHIJKLMNOPQRSTUWWXYZ
TimesNewRomanPSMT	ABCDEFGHIJKLMNOPQRSTUWWXYZ
TimesNewRomanCE	ABCDEFGHIJKLMNOPQRSTUWWXYZ
TimesNewRomanPS ItalicMT	ABCDEFGHIJKLMNOPQRSTUWWXYZ
TimesNewRomanCE Italic	ABCDEFGHIJKLMNOPQRSTUWWXYZ
TimesNewRomanPS BoldMT	ABCDEFGHIJKLMNOPQRSTUWWXYZ
TimesNewRomanCE Bold	ABCDEFGHIJKLMNOPQRSTUWWXYZ
TimesNewRomanPS BoldItalicMT	ABCDEFGHIJKLMNOPQRSTUWWXYZ
TimesNewRomanCE BoldItalic	ABCDEFGHIJKLMNOPQRSTUWWXYZ
Univers	ABCDEFGHIJKLMNOPQRSTUWWXYZ
UniversCE Medium	ABCDEFGHIJKLMNOPQRSTUWWXYZ
Univers Oblique	ABCDEFGHIJKLMNOPQRSTUWWXYZ
UniversCE Oblique	ABCDEFGHIJKLMNOPQRSTUWWXYZ
Univers Bold	ABCDEFGHIJKLMNOPQRSTUWWXYZ



# Symbol Sets

## ASCII

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0	
0	.	.	.	.	0	@	P	'	p	.	.	.	.	.	.	0	
1	.	!	1	A	Q	a	q	.	.	.	.	.	.	.	.	1	
2	.	"	2	B	R	b	r	.	.	.	.	.	.	.	.	2	
3	.	#	3	C	S	c	s	.	.	.	.	.	.	.	.	3	
4	.	\$	4	D	T	d	t	.	.	.	.	.	.	.	.	4	
5	.	%	5	E	U	e	u	.	.	.	.	.	.	.	.	5	
6	.	&	6	F	V	f	v	.	.	.	.	.	.	.	.	6	
7	.	'	7	G	W	g	w	.	.	.	.	.	.	.	.	7	
8	.	(	8	H	X	h	x	.	.	.	.	.	.	.	.	8	
9	.	)	9	I	Y	i	y	.	.	.	.	.	.	.	.	9	
A	.	*	:	J	Z	j	z	.	.	.	.	.	.	.	.	A	
B	.	+	;	K	[	k	{	.	.	.	.	.	.	.	.	B	
C	,	<	L	\	I		.	.	.	.	.	.	.	.	.	C	
D	-	=	M	]	m	}	.	.	.	.	.	.	.	.	.	D	
E	.	>	N	^	n	~	.	.	.	.	.	.	.	.	.	E	
F	/	?	O	_	o	▀	.	.	.	.	.	.	.	.	.	F	

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Appendix

## DeskTop

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0	
0	.	.	.	.	0	@	P	'	p	.	.	.	.	.	.	0	
1	.	!	1	A	Q	a	q	.	.	¶	"	±	›	º	`	1	
2	.	"	2	B	R	b	r	.	.	§	µ	×	«	æ	^	2	
3	.	#	3	C	S	c	s	.	.	†	%	÷	»	Æ	"	3	
4	.	\$	4	D	T	d	t	.	.	‡	•	◦	,	ð	~	4	
5	.	%	5	E	U	e	u	.	.	©	●	'	"	Ð	×	5	
6	.	&	6	F	V	f	v	.	.	®	°	"	·	ij	ˇ	6	
7	.	'	7	G	W	g	w	.	.	™	○	¼	í	Ĳ	"	7	
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## ISO 8859-1 Latin 1

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3	.	#	3	C	S	c	s	.	.	£	³	Ã	Ó	ã	ó	3	
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7	.	'	7	G	W	g	w	.	.	§	·	Ç	×	ç	÷	7	
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## ISO 8859-10 Latin 6

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## ISO 8859-2 Latin 2

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7	.	'	7	G	W	g	w	.	.	.	܂	܃	܄	܅	܆	܇	7
8	.	(	8	H	X	h	x	.	.	.	܂	܃	܄	܅	܆	܇	8
9	.	)	9	I	Y	i	y	.	.	.	܂	܃	܄	܅	܆	܇	9
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## ISO 8859-9 Latin 5

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3	.	#	3	C	S	c	s	.	.	.	܂	܃	܄	܅	܆	܇	܈	
4	.	\$	4	D	T	d	t	.	.	.	܂	܃	܄	܅	܆	܇	܈	
5	.	%	5	E	U	e	u	.	.	.	܂	܃	܄	܅	܆	܇	܈	
6	.	&	6	F	V	f	v	.	.	.	܂	܃	܄	܅	܆	܇	܈	
7	.	'	7	G	W	g	w	.	.	.	܂	܃	܄	܅	܆	܇	܈	
8	.	(	8	H	X	h	x	.	.	.	܂	܃	܄	܅	܆	܇	܈	
9	.	)	9	I	Y	i	y	.	.	.	܂	܃	܄	܅	܆	܇	܈	
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## ISO French

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3	£	3	C	S	c	s										
4	\$	4	D	T	d	t										
5	%	5	E	U	e	u										
6	&	6	F	V	f	v										
7	,	7	G	W	g	w										
8	(	8	H	X	h	x										
9	)	9	I	Y	i	y										
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## ISO German

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2	"	2	B	R	b	r										
3	#	3	C	S	c	s										
4	\$	4	D	T	d	t										
5	%	5	E	U	e	u										
6	&	6	F	V	f	v										
7	,	7	G	W	g	w										
8	(	8	H	X	h	x										
9	)	9	I	Y	i	y										
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***ISO Italian***

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9	.	.	)	9	I	Y	i	y	.	.	.	.	.	.	.	9
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***ISO Norwegian***

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3	.	.	#	3	C	S	c	s	.	.	.	.	.	.	.	3
4	.	.	\$	4	D	T	d	t	.	.	.	.	.	.	.	4
5	.	.	%	5	E	U	e	u	.	.	.	.	.	.	.	5
6	.	.	&	6	F	V	f	v	.	.	.	.	.	.	.	6
7	.	.	'	7	G	W	g	w	.	.	.	.	.	.	.	7
8	.	.	(	8	H	X	h	x	.	.	.	.	.	.	.	8
9	.	.	)	9	I	Y	i	y	.	.	.	.	.	.	.	9
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## ISO Spanish

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3	.	£	3	C	S	c	s	.	.	.	.	.	.	.	.	3	
4	.	\$	4	D	T	d	t	.	.	.	.	.	.	.	.	4	
5	.	%	5	E	U	e	u	.	.	.	.	.	.	.	.	5	
6	.	&	6	F	V	f	v	.	.	.	.	.	.	.	.	6	
7	.	'	7	G	W	g	w	.	.	.	.	.	.	.	.	7	
8	.	(	8	H	X	h	x	.	.	.	.	.	.	.	.	8	
9	.	)	9	I	Y	i	y	.	.	.	.	.	.	.	.	9	
A	*	:	J	Z	j	z	.	.	.	.	.	.	.	.	.	A	
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## ISO Swedish

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7	.	'	7	G	W	g	w	.	.	.	.	.	.	.	.	7	
8	.	(	8	H	X	h	x	.	.	.	.	.	.	.	.	8	
9	.	)	9	I	Y	i	y	.	.	.	.	.	.	.	.	9	
A	*	:	J	Z	j	z	.	.	.	.	.	.	.	.	.	A	
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## ISO United Kingdom

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3	.	£	3	C	S	c	s	.	.	.	.	.	.	.	.	3
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5	.	%	5	E	U	e	u	.	.	.	.	.	.	.	.	5
6	.	&	6	F	V	f	v	.	.	.	.	.	.	.	.	6
7	.	'	7	G	W	g	w	.	.	.	.	.	.	.	.	7
8	.	(	8	H	X	h	x	.	.	.	.	.	.	.	.	8
9	.	)	9	I	Y	i	y	.	.	.	.	.	.	.	.	9
A	.	*	:	J	Z	j	z	.	.	.	.	.	.	.	.	A
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Appendix

## Legal

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2	.	"	2	B	R	b	r	.	.	.	.	.	.	.	.	2
3	.	#	3	C	S	c	s	.	.	.	.	.	.	.	.	3
4	.	\$	4	D	T	d	t	.	.	.	.	.	.	.	.	4
5	.	%	5	E	U	e	u	.	.	.	.	.	.	.	.	5
6	.	&	6	F	V	f	v	.	.	.	.	.	.	.	.	6
7	.	'	7	G	W	g	w	.	.	.	.	.	.	.	.	7
8	.	(	8	H	X	h	x	.	.	.	.	.	.	.	.	8
9	.	)	9	I	Y	i	y	.	.	.	.	.	.	.	.	9
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## Math-8

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0	
0					<b>0</b>	$\therefore$	$\Pi$	$\because$	$\pi$		$\neg$	$\oplus$	$\AA$	$\Gamma$	$\Gamma$	0	
1				$\checkmark$	<b>1</b>	<b>A</b>	<b>P</b>	$\alpha$	$\rho$		$\uparrow$	$\forall$	$\odot$	$\neg$	$\sqcup$	1	
2				"	<b>2</b>	<b>B</b>	<b>S</b>	$\beta$	$\sigma$		$\rightarrow$	$\exists$	$\otimes$	$\vdash$	$\{$	2	
3				$\circ$	<b>3</b>	<b>G</b>	<b>T</b>	$\gamma$	$\tau$		$\downarrow$	$\top$	$\ominus$	$\sqcup$	$\}$	3	
4				$\infty$	<b>4</b>	<b>A</b>	<b>T</b>	$\delta$	$v$		$\leftarrow$	$\perp$	$\oslash$	$\exists$	$\sqcap$	4	
5				$\div$	<b>5</b>	<b>E</b>	<b>F</b>	$\epsilon$	$\phi$		$\uparrow\uparrow$	$\cup$	$\wedge$	$\int$	$\int$	5	
6				$\infty$	<b>6</b>	<b>Z</b>	<b>X</b>	$\zeta$	$\chi$		$\Rightarrow$	$\cap$	$\vee$	$\ddot{\phi}$	$\mid$	6	
7				'	<b>7</b>	<b>H</b>	<b>Psi</b>	$\eta$	$\psi$		$\Downarrow$	$\in$	$\veevee$	$\angle$	$\downarrow$	7	
8				(	<b>8</b>	<b>Theta</b>	<b>Omega</b>	$\theta$	$\omega$		$\Leftarrow$	$\exists$	$\neg$	$\emptyset$	$\nabla$	8	
9				)	<b>9</b>	<b>I</b>	<b>Nabla</b>	$\iota$	$\vartheta$		$\Updownarrow$	$\notin$	$\circ$	$\bowtie$	$\parallel$	9	
A				$\times$	<b>e</b>	<b>K</b>	<b>delta</b>	$\kappa$	$\varphi$		$\leftrightarrow$	$\subset$	$\cdot$	$\supseteq$	$\angle$	A	
B				$+$	<b>ε</b>	<b>A</b>	<b>varsigma</b>	$\lambda$	$\varpi$		$\Updownarrow$	$\supset$	$\bullet$	$\bowtie$	$\diagup$	B	
C				,	$<$	<b>M</b>	$\leq$	$\mu$	$\approx$		$\Leftrightarrow$	$\mathcal{C}$	$\bullet$	$\mathfrak{C}$	$\prec$	C	
D				-	$=$	<b>N</b>	$\neq$	$\nu$	$\equiv$		$\Leftrightarrow$	$\mathcal{D}$	$\circ$	$\mathfrak{D}$	$=$	D	
E				.	$>$	<b>Z</b>	$\geq$	$\xi$	$\neqq$		$\Leftrightarrow$	$\subseteq$	$\dagger$	$\mathfrak{R}$	$*$	E	
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## MC Text

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2				"	<b>2</b>	<b>B</b>	<b>R</b>	b	r	$\mathbb{C}$	$\acute{i}$	$\acute{e}$	$\leq$	$\neg$	"	,	$\acute{U}$
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6				&	<b>6</b>	<b>F</b>	<b>V</b>	f	v	$\ddot{U}$	$\tilde{n}$	$\P$	$\partial$	$\Delta$	$\div$	$\hat{E}$	6
7				'	<b>7</b>	<b>G</b>	<b>W</b>	g	w	$\acute{a}$	$\acute{o}$	$\mathbb{B}$	$\Sigma$	$\diamond$	$\diamond$	$\acute{A}$	7
8				(	<b>8</b>	<b>H</b>	<b>X</b>	h	x	$\grave{a}$	$\grave{o}$	$\circledast$	$\Pi$	$\gg$	$\ddot{y}$	$\ddot{E}$	-
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Appendix

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## PS Math

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5	⋮	⋮	⋮	⋮	%	5	E	Y	ε	v	⋮	⋮	⋮	⋮	⋮	⋮
6	⋮	⋮	⋮	⋮	&	6	Φ	ς	ϕ	ϖ	⋮	⋮	⋮	⋮	⋮	⋮
7	⋮	⋮	⋮	⋮	⋮	!	7	Γ	Ω	γ	ω	⋮	⋮	⋮	⋮	⋮
8	⋮	⋮	⋮	⋮	(	8	H	Ξ	η	ξ	⋮	⋮	⋮	⋮	⋮	⋮
9	⋮	⋮	⋮	⋮	)	9	I	Ψ	ι	ψ	⋮	⋮	⋮	⋮	⋮	⋮
A	⋮	⋮	⋮	⋮	*	:	θ	Z	φ	ξ	⋮	⋮	⋮	⋮	⋮	⋮
B	⋮	⋮	⋮	⋮	+	;	K	[	κ	{	⋮	⋮	⋮	⋮	⋮	⋮
C	⋮	⋮	⋮	⋮	,	<	Λ	∴	λ		⋮	⋮	⋮	⋮	⋮	⋮
D	⋮	⋮	⋮	⋮	-	=	M	]	μ	}	⋮	⋮	⋮	⋮	⋮	⋮
E	⋮	⋮	⋮	⋮	.	>	N	⊥	ν	~	⋮	⋮	⋮	⋮	⋮	⋮
F	⋮	⋮	⋮	⋮	/	?	O	_	o	⋮	⋮	⋮	⋮	⋮	⋮	⋮
	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0

Appendix

## PS Text

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0	
0				0	@	P	'	p								0	
1		!	1	A	Q	a	q		i	-	'			Æ	æ	1	
2		"	2	B	R	b	r		ç	†	'					2	
3		#	3	C	S	c	s		£	‡	^			a		3	
4		\$	4	D	T	d	t		/	·	~					4	
5		%	5	E	U	e	u		¥		-				I	5	
6		&	6	F	V	f	v		f	¶	~					6	
7		,	7	G	W	g	w		§	•	•					7	
8		(	8	H	X	h	x		¤	,	"			L	l	8	
9		)	9	I	Y	i	y		'	"				O	o	9	
A		*	:	J	Z	j	z		"	"	°			Œ	œ	A	
B		+	;	K	[	k	{		«	»	,			º	ß	B	
C		,	<	L	\	l			⟨	...						C	
D		-	=	M	]	m	}		>	%o	"					D	
E		.	>	N	^	n	~		fi		‘					E	
F		/	?	O	_	o			fl	ü	~					F	
	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0	

## Roman-8

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0	
0				0	@	P	'	p			-	å	Å	Á	Þ	0	
1		!	1	A	Q	a	q		À	Ý	ê	î	Ã	þ	1		
2		"	2	B	R	b	r		Â	ý	ô	ø	ã	·	2		
3		#	3	C	S	c	s		È	°	û	æ	ð	µ	3		
4		\$	4	D	T	d	t		Ê	ç	á	â	ð	¶	4		
5		%	5	E	U	e	u		Ë	ç	é	í	í	¾	5		
6		&	6	F	V	f	v		Î	Ñ	ó	ø	ì	-	6		
7		,	7	G	W	g	w		Ï	ñ	ú	æ	Ó	¼	7		
8		(	8	H	X	h	x		'	í	à	Á	ò	½	8		
9		)	9	I	Y	i	y		’	ð	è	ì	Ó	ª	9		
A		*	:	J	Z	j	z		^	¤	ò	ó	º	º	A		
B		+	;	K	[	k	{		"	£	ù	Ü	š	«	B		
C		,	<	L	\	l			~	¥	ä	É	š	■	C		
D		-	=	M	]	m	}		Ù	§	ë	í	Ú	»	D		
E		.	>	N	^	n	~		Û	f	ö	ß	Ý	±	E		
F		/	?	O	_	o			£	¢	ü	Ô	ÿ		F		
	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0	

## Symbol

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
0	⋮	⋮	⋮	⋮	⋮	⋮	0	≈	Π	—	π	⋮	⋮	⋮	⋮	⋮
1	⋮	⋮	⋮	!	1	A	Θ	α	θ	⋮	⋮	⋮	⋮	⋮	⋮	⋮
2	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
3	⋮	⋮	⋮	#	3	X	Σ	χ	σ	⋮	⋮	≤	≥	⋮	⋮	⋮
4	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	/	×	⊗	TM	TM
5	⋮	⋮	⋮	%	5	E	Y	ε	υ	⋮	⋮	∞	∞	⊕	Π	Σ
6	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	f	∂	∅	√	( )
7	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	♣	•	∩	·	⋮
8	⋮	⋮	⋮	(	8	H	Ξ	η	ξ	⋮	⋮	♦	÷	∪	¬	)
9	⋮	⋮	⋮	)	9	I	Ψ	ι	ψ	⋮	⋮	♥	≠	▷	∧	⊓
A	⋮	⋮	⋮	*	:	Θ	Z	φ	ζ	⋮	⋮	♠	≡	⊐	∨	⋮
B	⋮	⋮	⋮	+	;	K	[	κ	{	⋮	⋮	↔	≈	⊏	⇒	]
C	⋮	⋮	⋮	,	<	Λ	∴	λ		⋮	⋮	←	...	⊑	≤	}
D	⋮	⋮	⋮	-	=	M	]	μ	}	⋮	⋮	↑		⊑	↑	{ }
E	⋮	⋮	⋮	.	>	N	⊥	v	~	⋮	⋮	→	—	∈	⇒	)
F	⋮	⋮	⋮	/	?	O	—	o	⋮	⋮	⋮	↓	↔	∉	↓	

00 10 20 30 40 50 60 70 80 90 A0 B0 C0 D0 E0 F0

## Ventura International

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0			
0	⋮	⋮	⋮	⋮	⋮	⋮	0	@	P	‘	p	⋮	⋮	„	%	â	Å	Á	Œ
1	⋮	⋮	⋮	⋮	!	1	A	Q	a	q	⋮	⋮	À	“	ê	î	Ã	œ	
2	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	À	”	ô	ø	ã	¶	
3	⋮	⋮	⋮	⋮	#	3	C	S	c	s	⋮	⋮	È	°	û	Æ	†	‡	
4	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	Ê	ç	á	å	‡	‡	
5	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	Ë	ç	é	í	í	—	
6	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	Î	ñ	ó	ø	í	—	
7	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	Ï	ñ	ú	æ	Ó	—	
8	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	©	í	à	Ä	Ò	—	
9	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	®	í	è	í	Ó	á	
A	⋮	⋮	⋮	⋮	*	:	J	Z	j	z	⋮	⋮	⋮	TM	¤	ò	Ö	ö	º
B	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	£	ù	Ü	Š	
C	⋮	⋮	⋮	⋮	,	<	L	\	l		⋮	⋮	⋮	⋮	¥	ä	É	š	•
D	⋮	⋮	⋮	⋮	-	=	M	]	m	}	⋮	⋮	⋮	⋮	Ù	§	ë	í	Ú
E	⋮	⋮	⋮	⋮	.	>	N	^	n	~	⋮	⋮	⋮	⋮	Û	f	ö	ß	Ŷ
F	⋮	⋮	⋮	⋮	/	?	O	—	o	⋮	⋮	⋮	⋮	⋮	¢	ü	Ô	ÿ	...

00 10 20 30 40 50 60 70 80 90 A0 B0 C0 D0 E0 F0

Ventura Math

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
0				<b>0</b>	$\cong$	$\Pi$	$\bar{\phantom{x}}$	$\pi$			$\diamond$	$\circledR$	$\leq$	$\downarrow$	$ $	$\Pi$
1				<b>!</b>	<b>1</b>	<b>A</b>	$\Theta$	$\alpha$	$\theta$		$\checkmark$	$\supset$	$\diamond$	$\leftarrow$	$\cdot$	$\text{TM}$
2				<b>V</b>	<b>2</b>	<b>B</b>	<b>P</b>	$\beta$	$\rho$		$\sqcup$	$\geq$	$\circledR$	$\angle$	$\Leftarrow$	
3				<b>#</b>	<b>3</b>	<b>X</b>	$\Sigma$	$\chi$	$\sigma$		$\Gamma$	$\{$	$\partial$	$"$	$J$	$\Leftrightarrow$
4				<b>E</b>	<b>4</b>	<b>A</b>	<b>T</b>	$\delta$	$\tau$		$ $		$\aleph$	$f$	$\vee$	$\forall$
5				<b>%</b>	<b>5</b>	<b>E</b>	<b>Y</b>	$\varepsilon$	$v$		$\sqcup$	$\clubsuit$	$'$	$\Im$	$\{$	$\Sigma$
6				<b>&amp;</b>	<b>6</b>	<b>F</b>	$\varsigma$	$\phi$	$\varpi$		$\sqcup$	$\oplus$	$\Re$	$\odot$	$\int$	$\text{TM}$
7				$\exists$	<b>7</b>	<b>G</b>	$\Omega$	$\gamma$	$\omega$		$ $	$\otimes$	$\wp$	$\pm$	$\rangle$	$ $
8				$($	<b>8</b>	<b>H</b>	$\Xi$	$\eta$	$\xi$		$\uparrow$	$\subseteq$	$\infty$	$\rightarrow$	$\rfloor$	$\wedge$
9				$)$	<b>9</b>	<b>I</b>	$\Psi$	$\iota$	$\psi$		$\Rightarrow$	$\cup$	$\spadesuit$	$\uparrow$	$\neg$	$\emptyset$
A				*	:	$\vartheta$	<b>Z</b>	$\varphi$	$\zeta$		$\Downarrow$	$-$	$\infty$	$\neq$	$\nabla$	$\cap$
B				$+$	$;$	<b>K</b>	$[$	$\kappa$	$\{$		$\mathcal{L}$	$\dots$	$\bullet$	$\equiv$	$\int$	$\in$
C				,	$<$	$\Lambda$	$\therefore$	$\lambda$	$ $		$C$	$ $	$/$	$\circ$	$ $	$\odot$
D				$-$	$=$	<b>M</b>	$]$	$\mu$	$\}$		$J$	$\wedge$	$\heartsuit$	$\leftrightarrow$	$\}$	$\notin$
E				.	$>$	<b>N</b>	$\perp$	$\nu$	$\sim$		$ $	$\leftarrow$	$\times$	$\lceil$	$J$	$\top$
F				/	$?$	<b>O</b>	$\_$	$\flat$	$\circ$		$\{$	$\approx$	$\aleph$	$\int$	$\div$	$\langle$
	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0

*Ventura US*

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
0	.	.	.	<b>0</b>	@	P	‘	p	.	,	%	.	.	.	.	.
1	!	1	A	Q	a	q	.	.	.	.	“	.	.	.	.	.
2	”	2	B	R	b	r	.	.	.	”	.	.	.	¶	.	.
3	#	3	C	S	c	s	.	.	.	◦	.	.	.	†	.	.
4	\$	4	D	T	d	t	.	.	.	.	.	.	.	‡	.	.
5	%	5	E	U	e	u	.	.	.	.	.	.	.	—	.	.
6	&	6	F	V	f	v	.	.	.	.	.	.	.	—	.	.
7	,	7	G	W	g	w	.	.	.	.	.	.	.	.	.	.
8	(	8	H	X	h	x	.	.	.	©	.	.	.	.	.	.
9	)	9	I	Y	i	y	.	.	.	®	.	.	.	.	.	.
A	*	:	J	Z	j	z	.	.	.	TM	.	.	.	.	.	.
B	+	;	K	[	k	{	.	.	.	.	.	.	.	.	.	.
C	,	<	L	\	l		.	.	.	.	.	.	.	•	.	.
D	-	=	M	]	m	}	.	.	.	§	.	.	.	.	.	.
E	.	>	N	^	n	~	.	.	.	.	.	.	.	.	.	.
F	/	?	O	—	o	.	.	.	.	¢	.	.	.	.	.	.
	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0

## Windows 3.0 Latin 1

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0	
0	.	.	.	.	0	@	P	`	p	.	.	o	À	Ð	à	ð	0
1	.	!	1	A	Q	a	q	.	‘	;	±	Á	Ñ	á	ñ	1	
2	.	”	2	B	R	b	r	,	’	€	²	Â	Ò	â	ò	2	
3	.	#	3	C	S	c	s	.	£	³	Ã	Ó	ã	ó	3		
4	.	\$	4	D	T	d	t	.	¤	’	Ä	Ô	ä	ô	4		
5	.	%	5	E	U	e	u	.	¥	µ	Å	Õ	å	õ	5		
6	.	&	6	F	V	f	v	.	!	¶	Æ	Ö	æ	ö	6		
7	.	'	7	G	W	g	w	.	§	·	Ç	×	ç	÷	7		
8	.	(	8	H	X	h	x	.	”	,	È	Ø	è	ø	8		
9	.	)	9	I	Y	i	y	.	©	¹	É	Ù	é	ù	9		
A	*	:	J	Z	j	z	.	.	a	º	Ê	Ú	ê	ú	A		
B	+	;	K	[	k	{	.	«	»	Ë	Û	ë	û	.	B		
C	,	<	L	\	l		.	¬	½	Ì	Ü	ì	ü	.	C		
D	-	=	M	]	m	}	.	-	½	Í	Ý	í	ý	.	D		
E	.	>	N	^	n	~	.	®	¾	Î	Þ	î	þ	.	E		
F	/	?	O	_	o	▀	.	Ŷ	—	ë	Ï	ß	ï	ÿ	F		

00 10 20 30 40 50 60 70 80 90 A0 B0 C0 D0 E0 F0

## Windows 3.1 Latin 1

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0	
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1	.	!	1	A	Q	a	q	.	‘	;	±	Á	Ñ	á	ñ	1	
2	.	”	2	B	R	b	r	,	’	€	²	Â	Ò	â	ò	2	
3	.	#	3	C	S	c	s	“	£	³	Ã	Ó	ã	ó	3		
4	.	\$	4	D	T	d	t	”	¤	’	Ä	Ô	ä	ô	4		
5	.	%	5	E	U	e	u	...	•	¥	µ	Å	Õ	å	õ	5	
6	.	&	6	F	V	f	v	†	–	!	¶	Æ	Ö	æ	ö	6	
7	.	'	7	G	W	g	w	‡	—	§	·	Ç	×	ç	÷	7	
8	.	(	8	H	X	h	x	^	~	”	,	È	Ø	è	ø	8	
9	.	)	9	I	Y	i	y	‰	™	©	¹	É	Ù	é	ù	9	
A	*	:	J	Z	j	z	Š	š	ª	º	Ê	Ú	ê	ú	.	A	
B	+	;	K	[	k	{	Œ	œ	¬	½	Ì	Ü	ì	ü	.	B	
C	,	<	L	\	l		Œ	œ	¬	½	Í	Ý	í	ý	.	C	
D	-	=	M	]	m	}	.	-	½	Í	Ý	í	ý	.	D		
E	.	>	N	^	n	~	.	®	¾	Î	Þ	î	þ	.	E		
F	/	?	O	_	o	▀	Ŷ	—	ë	Ï	ß	ï	ÿ	.	F		

00 10 20 30 40 50 60 70 80 90 A0 B0 C0 D0 E0 F0

## Windows 3.1 Latin 2

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
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2	.	"	2	B	R	b	r	,	'	~	.	Â	Ñ	â	ñ	
3	.	#	3	C	S	c	s	"	L	I	Ă	Ó	ă	ó		
4	.	\$	4	D	T	d	t	"	"	□	'	Ã	Ô	ä	ô	
5	.	%	5	E	U	e	u	...	•	À	µ	Í	Õ	í	õ	
6	.	&	6	F	V	f	v	†	-	!	¶	Ć	Ö	ć	ö	
7	.	'	7	G	W	g	w	‡	—	§	·	Ç	×	ç	÷	
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9	.	)	9	I	Y	i	y	%o	TM	©	¤	É	Ú	é	ú	
A	*	:	J	Z	j	z	Š	š	ſ	ſ	ſ	E	Ú	ę	ú	
B	+	;	K	[	k	{	⟨	⟩	«	»	»	Ë	Ü	ë	ü	
C	,	<	L	\	l		Ś	ś	¬	Ł	Ę	Ü	ě	ü		
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F	/	?	O	_	o	▀	Ž	ž	Ž	ž	Đ	Ђ	đ	đ		

## Windows 3.1 Latin 5

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
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1	.	!	1	A	Q	a	q	.	'	;	±	Á	Ń	á	ń	
2	.	"	2	B	R	b	r	,	'	¢	²	Â	Ò	â	ò	
3	.	#	3	C	S	c	s	"	£	³	Ã	Ó	ă	ó		
4	.	\$	4	D	T	d	t	"	"	□	'	Ã	Ô	ä	ô	
5	.	%	5	E	U	e	u	...	•	¥	µ	Å	Ó	å	õ	
6	.	&	6	F	V	f	v	†	-	!	¶	Æ	Ö	æ	ö	
7	.	'	7	G	W	g	w	‡	—	§	·	Ҫ	×	ç	÷	
8	.	(	8	H	X	h	x	^	~	"	.	È	Ø	è	ø	
9	.	)	9	I	Y	i	y	%o	TM	©	¹	É	Ù	é	ù	
A	*	:	J	Z	j	z	Š	š	ª	º	Ê	Ú	ê	ú		
B	+	;	K	[	k	{	⟨	⟩	«	»	»	Ë	Ü	ë	ü	
C	,	<	L	\	l		Œ	œ	¬	¼	Ì	Ü	ì	ü		
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## Windows Baltic

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1	!	1	A	Q	a	q	.	'	.	‘	±	Í	Ñ	í	ñ	
2	"	2	B	R	b	r	,	,	€	²	Ā	Ñ	ā	ñ		
3	#	3	C	S	c	s	"	"	£	³	Ć	Ó	ć	ó		
4	\$	4	D	T	d	t	"	"	¤	’	À	Ò	ä	ò		
5	%	5	E	U	e	u	...	•	.	μ	Å	Ò	å	ò		
6	&	6	F	V	f	v	†	-	!	¶	È	Ö	ë	ö		
7	'	7	G	W	g	w	‡	—	§	·	È	×	ë	÷		
8	(	8	H	X	h	x	.	.	Ø	ø	Č	Ù	č	ù		
9	)	9	I	Y	i	y	%	eo	™	©	¹	É	Ł	é	ł	
A	*	:	J	Z	j	z	.	.	R	r	Ž	Ś	ż	ś		
B	+	;	K	I	k	{	<	>	«	»	È	Ü	è	ü		
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Appendix

## Wingdings

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
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9	.	.	.	.	.	.	.	.	.	.	14	○	◊	⌚	↑	↑
A	.	.	.	.	.	.	.	.	.	.	15	○	◊	⌚	↓	□
B	.	.	.	.	.	.	.	.	.	.	16	○	◊	⌚	↖	×
C	.	.	.	.	.	.	.	.	.	.	17	○	◊	⌚	↗	×
D	.	.	.	.	.	.	.	.	.	.	18	○	◊	⌚	↙	×
E	.	.	.	.	.	.	.	.	.	.	19	○	◊	⌚	↘	×
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**3 of 9 Barcode**

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
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E	.					.	.	.	.	.	.	.	.	.	.	.
F	.							.	.	.	.	.	.	.	.	.
	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0

## **Code 128**

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
0										.....	.....	.....	.....	.....	.....	.....
1										.....		.....	.....	.....	.....	.....
2										.....		.....	.....	.....	.....	.....
3										.....		.....	.....	.....	.....	.....
4										.....		.....	.....	.....	.....	.....
5										.....		.....	.....	.....	.....	.....
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7										.....		.....	.....	.....	.....	.....
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E										.....		.....	.....	.....	.....	.....
F										.....	.....	.....	.....	.....	.....	.....
	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0

*Codebar*

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**Interleaved 2 of 5**

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
0																
1																
2																
3																
4																
5																
6																
7																
8																
9																
A																
B																
C																
D																
E																
F																
	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0

## MSI / Plessey

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0	
0	...	...	...		...	...	...	...	...	...	...	...	...	...	...	...	0
1	...	...	...		...	...	...	...	...	...	...	...	...	...	...	1	
2	...	...	...		...	...	...	...	...	...	...	...	...	...	...	2	
3	...	...	...		...	...	...	...	...	...	...	...	...	...	...	3	
4	...	...	...		...	...	...	...	...	...	...	...	...	...	...	4	
5	...	...	...		...	...	...	...	...	...	...	...	...	...	...	5	
6	...	...	...		...	...	...	...	...	...	...	...	...	...	...	6	
7	...	...	...		...	...	...	...	...	...	...	...	...	...	...	7	
8	...	...	...		...	...	...	...	...	...	...	...	...	...	...	8	
9	...	...	...		...	...	...	...	...	...	...	...	...	...	...	9	
A	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	A	
B	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	B	
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## PostNet

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5	...	...	...	...				...	...	...	...	...	...	...	...	5	
6	...	...	...	...				...	...	...	...	...	...	...	...	6	
7	...	...	...	...				...	...	...	...	...	...	...	...	7	
8	...	...	...	...				...	...	...	...	...	...	...	...	8	
9	...	...	...	...				...	...	...	...	...	...	...	...	9	
A	...	...	...	...		...	...	...	...	...	...	...	...	...	...	A	
B	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	B	
C	...	...	...	...	...	...	...		...	...	...	...	...	...	...	C	
D	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	D	
E	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	E	
F	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	F	

## UPC / EAN barcode

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Appendix

## OCR-A

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## OCR-B

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7	.	.	.	.	'	7	G	W	g	w	.	.	.	.	.	.	7
8	.	.	.	.	(	8	H	X	h	x	.	.	.	.	.	.	8
9	.	.	.	.	)	9	I	Y	i	y	.	.	.	.	.	.	9
A	.	.	.	.	*	:	J	Z	j	z	.	.	.	.	.	.	A
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# Configuration Page Sample

## PCL Configuration Page

<b>Canon Configuration Page</b>		iR2200-3300																																																																																																																																																																											
<p><b>① Hardware Configuration</b></p> <table border="0"> <tbody> <tr> <td>Product Name</td> <td>: iR2200</td> <td>RAM Size</td> <td>: 128 MB</td> </tr> <tr> <td>Serial No.</td> <td>: #W#0101</td> <td>ROM Size</td> <td>: None</td> </tr> <tr> <td>Date</td> <td>: 29/02/2001 11:23</td> <td>HDD</td> <td>: 5.6 GB</td> </tr> <tr> <td>Language</td> <td>: English</td> <td>PCI Device</td> <td>: iPPI Version 1 (slot 1)</td> </tr> <tr> <td>Main Board Version</td> <td>: 3</td> <td>Options</td> <td>: Cassette Feeding Unit</td> </tr> <tr> <td>Controller Version</td> <td>: 505.15.145</td> <td></td> <td>: Saddle Finisher-G1</td> </tr> <tr> <td>Scanner Version</td> <td>: 115.201</td> <td></td> <td>: Puncher Unit</td> </tr> <tr> <td>Finisher Version</td> <td>: 105</td> <td></td> <td></td> </tr> </tbody> </table> <p><b>② Common Settings</b></p> <table border="0"> <tbody> <tr> <td>Copies</td> <td>: Off</td> <td>Print Quality</td> <td>: On</td> </tr> <tr> <td>2-Sided Printing</td> <td>: Off</td> <td>Image Refinement</td> <td>: S</td> </tr> <tr> <td>Paper Save</td> <td>: On</td> <td>Density</td> <td>: Off</td> </tr> <tr> <td>Auto Continue</td> <td>: Off</td> <td>Toner Save</td> <td>: Off</td> </tr> <tr> <td>Job Securing Time</td> <td>: 1 hour</td> <td></td> <td></td> </tr> <tr> <td>Timeout</td> <td>: 15 s</td> <td></td> <td></td> </tr> <tr> <td>Print After Completing RIP</td> <td>: Off</td> <td></td> <td></td> </tr> <tr> <td>Finisher</td> <td>: None</td> <td></td> <td></td> </tr> <tr> <td>Punch</td> <td>: None</td> <td></td> <td></td> </tr> <tr> <td>Booklet</td> <td>: Left Binding</td> <td></td> <td></td> </tr> <tr> <td>Saddle Stitch</td> <td>: On</td> <td></td> <td></td> </tr> <tr> <td>Transparency Interleaving</td> <td>: None</td> <td></td> <td></td> </tr> <tr> <td>Personality</td> <td>: Auto</td> <td></td> <td></td> </tr> </tbody> </table> <p><b>③ Paper Feed</b></p> <table border="0"> <tbody> <tr> <td>Default Paper Size</td> <td>: A4</td> <td>Print Quality</td> <td>: On</td> </tr> <tr> <td>Default Paper Type</td> <td>: Plain Paper</td> <td>Image Refinement</td> <td>: S</td> </tr> <tr> <td>Paper Size Override</td> <td>: Off</td> <td>Density</td> <td>: Off</td> </tr> </tbody> </table> <p><b>④ PCL</b></p> <table border="0"> <tbody> <tr> <td><b>PCL Settings</b></td> <td colspan="3"></td> </tr> <tr> <td>Version</td> <td>: 3.0.0</td> <td>Print Quality</td> <td>: Long Edge</td> </tr> <tr> <td>Font Version</td> <td>: 19991102-4.0</td> <td>Image Refinement</td> <td>: 0.0 mm</td> </tr> <tr> <td>Orientation</td> <td>: Portrait</td> <td>Density</td> <td>: 0.0 mm</td> </tr> <tr> <td>Font Number</td> <td>: 0</td> <td>Margin</td> <td>: 0.0 mm</td> </tr> <tr> <td>Point Size</td> <td>: 12.00 point</td> <td>Offset X</td> <td>: 0.0 mm</td> </tr> <tr> <td>Pitch</td> <td>: 10.00 cpi</td> <td>Offset Y</td> <td>: 0.0 mm</td> </tr> <tr> <td>Form Lines</td> <td>: 64 lines</td> <td></td> <td></td> </tr> <tr> <td>Symbol Set</td> <td>: PCX</td> <td></td> <td></td> </tr> <tr> <td>Custom Paper</td> <td>: Off</td> <td></td> <td></td> </tr> <tr> <td>Append CR to LF</td> <td>: No</td> <td></td> <td></td> </tr> </tbody> </table> <p>Canon and the Canon logo are trademarks of Canon Inc. PCL, PCLse and PCL6 are trademarks of Hewlett-Packard Company.</p>			Product Name	: iR2200	RAM Size	: 128 MB	Serial No.	: #W#0101	ROM Size	: None	Date	: 29/02/2001 11:23	HDD	: 5.6 GB	Language	: English	PCI Device	: iPPI Version 1 (slot 1)	Main Board Version	: 3	Options	: Cassette Feeding Unit	Controller Version	: 505.15.145		: Saddle Finisher-G1	Scanner Version	: 115.201		: Puncher Unit	Finisher Version	: 105			Copies	: Off	Print Quality	: On	2-Sided Printing	: Off	Image Refinement	: S	Paper Save	: On	Density	: Off	Auto Continue	: Off	Toner Save	: Off	Job Securing Time	: 1 hour			Timeout	: 15 s			Print After Completing RIP	: Off			Finisher	: None			Punch	: None			Booklet	: Left Binding			Saddle Stitch	: On			Transparency Interleaving	: None			Personality	: Auto			Default Paper Size	: A4	Print Quality	: On	Default Paper Type	: Plain Paper	Image Refinement	: S	Paper Size Override	: Off	Density	: Off	<b>PCL Settings</b>				Version	: 3.0.0	Print Quality	: Long Edge	Font Version	: 19991102-4.0	Image Refinement	: 0.0 mm	Orientation	: Portrait	Density	: 0.0 mm	Font Number	: 0	Margin	: 0.0 mm	Point Size	: 12.00 point	Offset X	: 0.0 mm	Pitch	: 10.00 cpi	Offset Y	: 0.0 mm	Form Lines	: 64 lines			Symbol Set	: PCX			Custom Paper	: Off			Append CR to LF	: No			<p><b>⑤ PS</b></p> <table border="0"> <tbody> <tr> <td><b>PS Settings</b></td> <td colspan="3"></td> </tr> <tr> <td>Printer Name</td> <td>: iR3300</td> <td>Print Quality</td> <td>: Long Edge</td> </tr> <tr> <td>PS Version</td> <td>: 3010.103</td> <td>Image Refinement</td> <td>: 0.0 mm</td> </tr> <tr> <td>Job Timeout</td> <td>: 10 s</td> <td>Density</td> <td>: 0.0 mm</td> </tr> <tr> <td>Wait Timeout</td> <td>: 300 s</td> <td>Margin</td> <td>: 0.0 mm</td> </tr> <tr> <td>Print PS Errors</td> <td>: Off</td> <td>Offset X</td> <td>: 0.0 mm</td> </tr> <tr> <td></td> <td></td> <td>Offset Y</td> <td>: 0.0 mm</td> </tr> </tbody> </table> <p>Canon and the Canon logo are trademarks of Canon Inc. PostScript is a trademark of Adobe Systems Incorporated. PostScript 3 emulation is referred to as PS throughout this page and panel menu.</p>			<b>PS Settings</b>				Printer Name	: iR3300	Print Quality	: Long Edge	PS Version	: 3010.103	Image Refinement	: 0.0 mm	Job Timeout	: 10 s	Density	: 0.0 mm	Wait Timeout	: 300 s	Margin	: 0.0 mm	Print PS Errors	: Off	Offset X	: 0.0 mm			Offset Y	: 0.0 mm
Product Name	: iR2200	RAM Size	: 128 MB																																																																																																																																																																										
Serial No.	: #W#0101	ROM Size	: None																																																																																																																																																																										
Date	: 29/02/2001 11:23	HDD	: 5.6 GB																																																																																																																																																																										
Language	: English	PCI Device	: iPPI Version 1 (slot 1)																																																																																																																																																																										
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Controller Version	: 505.15.145		: Saddle Finisher-G1																																																																																																																																																																										
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Default Paper Size	: A4	Print Quality	: On																																																																																																																																																																										
Default Paper Type	: Plain Paper	Image Refinement	: S																																																																																																																																																																										
Paper Size Override	: Off	Density	: Off																																																																																																																																																																										
<b>PCL Settings</b>																																																																																																																																																																													
Version	: 3.0.0	Print Quality	: Long Edge																																																																																																																																																																										
Font Version	: 19991102-4.0	Image Refinement	: 0.0 mm																																																																																																																																																																										
Orientation	: Portrait	Density	: 0.0 mm																																																																																																																																																																										
Font Number	: 0	Margin	: 0.0 mm																																																																																																																																																																										
Point Size	: 12.00 point	Offset X	: 0.0 mm																																																																																																																																																																										
Pitch	: 10.00 cpi	Offset Y	: 0.0 mm																																																																																																																																																																										
Form Lines	: 64 lines																																																																																																																																																																												
Symbol Set	: PCX																																																																																																																																																																												
Custom Paper	: Off																																																																																																																																																																												
Append CR to LF	: No																																																																																																																																																																												
<b>PS Settings</b>																																																																																																																																																																													
Printer Name	: iR3300	Print Quality	: Long Edge																																																																																																																																																																										
PS Version	: 3010.103	Image Refinement	: 0.0 mm																																																																																																																																																																										
Job Timeout	: 10 s	Density	: 0.0 mm																																																																																																																																																																										
Wait Timeout	: 300 s	Margin	: 0.0 mm																																																																																																																																																																										
Print PS Errors	: Off	Offset X	: 0.0 mm																																																																																																																																																																										
		Offset Y	: 0.0 mm																																																																																																																																																																										

The Configuration Page includes the following information:

**① Hardware Configuration**

This section displays the hardware configuration of the machine, including any options that have been installed.

**② Common Settings**

This section displays the common printer settings of the machine, as determined by the Settings menu. (See "Settings Menu," on p. 3-3.)

**③ Paper Feed**

This section displays the paper feed settings for the printer function of the machine, as determined by the Paper Feed section of the Settings menu. (See "Paper Feed," on p. 3-4.)

**④ Print Quality**

This section displays the print quality settings for the printer function of the machine, as determined by the Print Quality section of the Settings menu. (See "Print Quality," on p. 3-6.)

**⑤ Layout**

This section displays the layout settings for the printer function of the machine, as determined by the Layout section of the Settings menu. (See "Layout," on p. 3-7.)

**⑥ PCL Settings**

This section displays the PCL settings for the printer function of the machine, as determined by the PCL section of the Settings menu. (See "PCL," on p. 3-20.)

**⑦ PS Settings (Printer Kit-C1 Only)**

This section displays the PS settings for the printer function of the machine, as determined by the PS section of the Settings menu. (See "PS," on p. 3-22.)

# Specifications

## *Software Specifications*

Command language:	PCL 6, PCL 5e, PostScript 3 emulation
Resident fonts:	PCL 80 Scalable fonts    30 Barcode fonts 2 OCR fonts        9 Bitmap fonts PS (Printer Kit-C1 Only) 136 Scalable fonts
Printable area:	PCL 5e Reduced to 4 mm from the top, bottom, left, and right edges of the paper.
	PCL 6, PostScript 3 emulation Reduced 4 mm from the top, bottom, left, and right edges of the paper.



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